~~~ *Curriculum Vitae* ~~~

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~~~ *Important Note at the beginning* ~~~

At the very beginning allow me to write this note to recruiters, team members, decision makers and others, who are going to read this CV of mine.

With nearly three decades of experience across IT, software development, banking, insurance, logistics, and education, I have condensed my career into a clear summary highlighting the most relevant skills, technologies, and results. My goal is to help you quickly recognize how I can add value to your team.

So, with having that in mind, rest of this CV is simple summary of my previous experiences. So each page below is experience for that particular role I did in that particular company. Each with the 3 simple sections: **Key responsibilities**, **Technologies I used** and **Accomplishments I did**. Simple as this. A current one you currently reading is my own summary of my self, list of my core skills and contributions I did to the society so far. If interested to know more, there are the pages with details about all my previous professional assignments.

I wish you a great day, and hopefully you will have a perfect role for me and decide to meet me in order to talk more, and eventually hire me.

~~~ *Summary - myself, about me* ~~~

- I consider myself a lifelong learner. While I have mastered all 7 layers of the OSI model, I approach every challenge with humility and curiosity.
- Need to say that I am self taught, about all of these topics. Never had a teacher in any of these technologies and tools we use everyday.
- Senior Programmer - built thousands of programs, platforms, applications, databases, and more.
- DevOps & Infrastructure Engineer, with a strong note about the security of the environments I'm in charge for.
- Expert in all 7 layers of OSI model, from bare metal, to cloud platforms, networking, automation, and security, various types of hypervisors.
- A proven record of leading digital transformations across the EU and US enterprises and various conglomerates.
- Self-taught engineer but still with super strong and quick troubleshooting, mentoring, and solution delivery skills.
- I can quickly and systematically identify technical issues across an organization with minimal input.
- I never critique work without providing constructive and actionable solutions.
- Strong motivation to keep everything ultra secured. SecOps freak. Why? To answer that question would require me to write a book or two.

~~~ *Core Skills* ~~~

- **Troubleshooting**: There are dozens of teams, big organization, legacy and highly complex code bases, issues in the production and nobody do not know what to do? Call me, and by the end of that same day, you will have a picture of what is going on and what you could do next.
- **Programming**: C, C++, Bash, Python, PHP, Node.js, Vue.js, Typescript, and many, many, many other programming and scripting languages.
- **Clouds**: bhyve, keystone, AWS, IBMCloud, gpc, Azure, A1 THC, Hetzner
- **DevOps**: Kubernetes, Docker, Terraform, Ansible, GitLab CI/CD, OpenShift, Chef
- **Networking & Security**: Cisco, PaloAlto, CheckPoint, pfSense, VPNs, PCI-DSS, DORA, ISO 27001
- **Databases**: MySQL, PostgreSQL, Oracle, MongoDB, MSSQL, sqlite, db, clipper,
- **Operating Systems**: GNU Linux , UNIX, FreeBSD, Windows Servers
- **Monitoring & Alerting**: NewRelic, Zabbix, DataDog, NagiOS, Grafana, Own Developed Tools, etc
- **Leadership**: Team management locally or remotely, various projects and team sizes. From 2 - 3 engineers to almost 100 of people collaborating on same project. Taking great care about project delivery, with all vendor coordination and everything else that delivering products may require. Familiar with Scrum and Atlassian Tools such as Jira and Confluence
- **Bare Metal Infrastructure**: IBM Aix, IBM AS400, ESX and ESXi, TailScale, Phoronix, nixOS.

~~~ *My contributions to the society since 1996* ~~~

• FreeBSD
• Fedora
• Docker
• Unreal Engine
• Podman

Last but not least note: I do not do code testing on any of those various platforms, whiteboard code tests, etc, sorry but nope. But you can tell me what you wish me to do, as some sort of test tasks, and give me some reasonable timeline for it, and I will probably came back up with solution on time.

~~~ *Professional Experiences* ~~~

Employer: Amygdal d.o.o
Position: DevOps & Full Stack Developer
Timeline: July 2025 - Present
Team Size: Small team of 16 developers.
Location: Remote

Key Responsibilities:

- *Operations & Infrastructure Management*: Oversee the configuration, maintenance, and alignment of local infrastructure with organizational goals, including compliance for the insurance finance sector across the globe PCI DSS, DORA, etc.

- *Team Coordination*: Work closely with team of developers to coordinate resources and ensure seamless integration of services across multiple locations, from application layer required infrastructure.

- *Containerization of the application layer*: Use currently standard model application and ensure the application layer runs reliably inside containers that can be orchestrated across modern platforms (e.g., Vercel, Railway, EKS).

- *ML ops*: Set up LLaMA and OpenUI as production-ready AI services for multiple customers.

- *Develop set of own tools to make one unique tool to replace usage of current tool set*: Build vanilla PHP MySQL app to oversee all ops, dev, uat and production environments across the cloud providers and different type of service providers such as Heroku, splunk, vercel, railway, etc..

- *Develop Python FastAPI for usage in CAD like environment*: Lead local efforts to generate python FastAPI for drawing cad diagrams used in factory for building and producing the exhausting systems. My solution leveraged mobile device sensors (e.g., iPhone cameras) to capture room dimensions and automatically generate CAD drawings.

- *Internal Process Improvement*: Contribute to process improvements and participate in conglomerate-level planning, ensuring alignment with group strategies and improving operational efficiency in order to make operations for the multitude of the configurations for various customers goes smoothly and without a stress on team.

- *Systems Development & Integration*: Build internal tools such as reporting systems and data synchronization mechanisms for the usage by development team in order to have better insight in the products they building.

- *Backup & Data Security*: Ensure secure, encrypted backup systems and perform regular backups (daily, weekly, monthly).

- *Collaborative Problem-Solving*: Assist upper management and internal teams in identifying issues, troubleshooting, and maintaining smooth operations.

Technologies Used:

- **Cloud & Virtualization**: QEMU/KVM, Azure, AWS, IBM Cloud, Podman

- **Orchestration**: Ansible, Terraform

- **Operating Systems**: Fedora Linux, FreeBSD, NetBSD

- **Databases**: MSSQL, MySQL, MongoDB.

- **Automation & CI/CD**: Terraform, GitLab, GitHub, MS DevOps (TFS)

- **Development**: PHP (vanilla, Laravel, Symfony), Node.js, Vue.js

- **Others**: Keycloak, SonarQube, Jenkins.

Accomplishments:

- Successfully led the containerization of next.js and nest.js applications initiative for the, ensuring compliance with best practices and standards.

- Played a critical role in developing disaster recovery plans, ensuring operational continuity in case of infrastructure failure.

- Improved branching logic for the repository's and various scenarios for deployments on different environments.

- Established strong vendor relationships, helping to migrate critical services to in-house systems without downtime.

- Introduced automated backup processes and tested disaster recovery protocols, reducing risk to business operations.

Summary of impact:

In this role, I have successfully managed a diverse range of tasks, from overseeing local development team operations and staff to participating in sorting out challenges on everyday software development tasks. My ability to implement strategic solutions for smooth flow of the development process, and at the same time protection of the process it self against mistakes that humans may do, has been instrumental in maintaining the integrity of the Amygdal team, while aligning with international standards and applying the best security practices across the multitude of the environments how in development, same as in testing and production environments for Amydal's own projects and code, as well as for their customers.

~~~ Professional Experiences ~~~

Employer: Grawe Grazer Wechselseitige Versicherung AG (Austria)
Position: Head of IT for Branch BiH
Timeline: April 2024 – May 2025
Team Size: Small local IT team with 350+ users
Location: Hybrid, Sarajevo, Bosnia and Herzegovina, Graz Austria, (HQ + 50 branch offices)

Key Responsibilities:

- *Leadership & Team Management*: Manage a local IT team, primarily focused on help-desk roles, to support 350+ users across 50 cities.

- *Operations & Infrastructure Management*: Oversee the configuration, maintenance, and alignment of local infrastructure with organizational goals, including DORA compliance for the insurance sector.

- *Cross-Border Coordination*: Work closely with Graz HQ to coordinate resources and ensure seamless integration of services across multiple locations, from application layer requests to asset tracking.

- *Disaster Recovery & Business Continuity*: Develop and test disaster recovery scenarios, ensuring critical systems remain operational during catastrophic events. This includes regular disaster recovery simulations, including planned fail over tests and server outage scenarios.

- *External Vendor Management*: Coordinate with external vendors for service migrations, hardware installation (including surveillance and security systems), and regulatory compliance tasks.

- *Regulatory Compliance & Reporting*: Lead local efforts to generate reports for regulators and government agencies. Maintain accurate documentation of services, backup systems, and operations.

- *Internal Process Improvement*: Contribute to process improvements and participate in conglomerate-level planning, ensuring alignment with group strategies and improving operational efficiency.

- *Systems Development & Integration*: Build internal tools such as reporting systems and data synchronization mechanisms between local offices and Graz HQ.

- *Backup & Data Security*: Ensure secure, encrypted backup systems and perform regular backups (daily, weekly, monthly). Collaborative Problem-Solving: Assist upper management and internal teams in identifying issues, troubleshooting, and maintaining smooth operations.

Technologies Used:

- **Cloud & Virtualization**: VMware ESX, OpenShift, Docker, Podman

- **Orchestration**: Saltstack, Ansible

- **Operating Systems**: SUSE Linux, FreeBSD, NetBSD, Microsoft Windows Server

- **Networking & Security**: Cisco, CheckPoint, CrowdStrike, Riverbed

- **Databases**: Oracle DB, MSSQL, MySQL

- **Backup & Monitoring**: NetApp, NetworkBackupManager, CheckMK, Splunk

- **Automation & CI/CD**: Terraform, GitLab, MS DevOps (TFS)

- **Development**: PHP (vanilla, Laravel, Symfony), Node.js, Vue.js

- **Others**: Keycloak, Baramundi, NextCloud, SonarQube

Accomplishments:

- Successfully led the implementation of DORA initiative for the branch, ensuring compliance with EU regulations.

- Played a critical role in developing disaster recovery plans, ensuring operational continuity in case of infrastructure failure.

- Improved local reporting mechanisms, resulting in more efficient communication with regulators and the management board.

- Established strong vendor relationships, helping to migrate critical services to in-house systems without downtime.

- Introduced automated backup processes and tested disaster recovery protocols, reducing risk to business operations.

Summary of impact:

In this role, I have successfully managed a diverse range of tasks, from overseeing local IT operations and staff to participating in high-level decision-making processes at the conglomerate level. My ability to implement strategic solutions for setting up architectures required for software development, and in same time with proper data protection, regulatory compliance, and seamless cross-border coordination has been instrumental in maintaining the IT integrity of the Bosnian branch while aligning with international standards.

~~~ *Professional Experiences* ~~~

Employer: SAASolutions d.o.o. Sarajevo, Bosnia and Herzegovina
Position: Head of DevOps = > Team leader on 3 different parallel on going projects.
Timeline: January 2023 – March 2024
Team Size: 3 major project teams, including 150+ developers and 10+ DevOps engineers
Location: Remote

Key Responsibilities: @ mDoc Project – Successful Refactoring and Acquisition

• *Oversaw Operations*: Ensured smooth production operations of mDoc, ensuring high availability and uninterrupted service delivery across 120+ clinics across the EU.

• *Refactoring & Transition*: Led the refactoring of the mDoc platform, resulting in its successful acquisition by the largest GmbH in the industry, CGM.

• *Team Leadership*: Coordinated a development team of 150+ people and a DevOps team of 10+ to seamlessly transition changes from development to production environments.

• *Cross-Border Collaboration*: Worked closely with the mDoc HQ in Belgium and external vendors (Portugal, India) to implement system updates and features.

• *Infrastructure Optimization*: Reduced cloud costs by redesigning infrastructure and reorganizing resources by country of origin, ensuring efficiency and cost-effectiveness.

• *Security & Compliance*: Ensured mDoc was PCI-DSS compliant and beyond, securing all assets and infrastructure.

• *Automated Workforce Management*: Designed and implemented a Python and Bash-based automation process
for on boarding and off boarding employees, streamlining HR processes and reducing administrative workload..

• *Disaster Recovery & Auto-Scaling*: Led the implementation of disaster recovery plans and auto-scaling features for clinics and hospitals.

• *User-Centered Development*: Regularly communicated with users (e.g., doctors, assistants, patients) to incorporate feedback into new features.

• *Team Motivation & Growth*: Motivated teams by assigning challenging tasks that encouraged skill development and learning in line with project requirements.

• *Stakeholder Engagement*: Held regular meetings with stakeholders to ensure alignment with business goals and customer expectations.

Technologies Used:

- **Cloud & Infrastructure**: THC – A1 T-Com Cloud, Hetzner, AWS, Azure

- **Automation & Scripting**: Python, Bash

- **DevOps & CI/CD**: Docker/Podman, GitLab, Jenkins, BitBucket

- **Virtualization**: VMware, Kubernetes

- **Embedded Systems**: Raspberry Pi, Custom Hardware Design at various clinics and hospitals.

- **Security & Compliance**: PCI-DSS, SSL/TLS, ISO 27001

- **Monitoring & Reporting**: Grafana, Prometheus, ELK Stack

- **Software Development**: PHP (vanilla, Laravel, Symfony), Node.js, Vue.js, Java Spring Boot,

Accomplishments:

- Successfully led the transformation of the mDoc platform, which resulted in its acquisition by *CGM gmbh*, a market leader in the health tech industry in Germany.

- Reduced cloud infrastructure costs significantly by optimizing resource allocation and implementing auto-scaling features tailored to client needs.

- Created an automated system for on boarding employees, reducing HR administrative work and improving operational efficiency.

- Championed user-centered design principles, ensuring that feedback from real users (e.g., doctors, patients)
directly influenced the development of new features.

~~~ *Professional Experiences* ~~~

Employer: SAASolutions d.o.o. Sarajevo, Bosnia and Herzegovina
Position: Head of DevOps = > Team leader on 3 different parallel on going projects.
Timeline: January 2023 – March 2024
Team Size: 3 major project teams, including 150+ developers and 10+ DevOps engineers
Location: Remote

Key responsibilities: @ Bunar Project – *"Embedded Systems for Smart Homes"*

- *Project Planning & Execution*: Led the development of smart home faucets for Bunar, a private company specializing in smart water solutions for homes, hotels, hospitals, and other public spaces.

- *Team Building & Recruitment*: Hired engineers and software developers to design and produce the product, managing a multi-disciplinary team for embedded systems.

- *Product Architecture*: Designed the architecture of the smart faucet product, ensuring remote monitoring and control while maintaining user privacy.

- *Prototyping & Development*: Designed and delivered a proof-of-concept system that included embedded hardware and local cloud infrastructure for development and testing.

- *Embedded Systems Design*: Designed hardware (e.g., main boards, connectors, safety procedures) and defined OS-level configurations for embedded faucet devices.

- *Quality Assurance*: Managed daily stand ups with the team, ensuring all features passed QA tests and certifications, including CE certification for mass production.

- *Documentation & Certification*: Led the documentation process for CE certification, ensuring compliance with industry standards for mass production and distribution.

Technologies used:

- **Cloud & Infrastructure**: AWS, Azure, Google Cloud

- **Automation & Scripting**: Python, Bash

- **DevOps & CI/CD**: Docker, GitLab, Jenkins

- **Virtualization**: VMware, Kubernetes

- **Embedded Systems**: Raspberry Pi, Custom Hardware Design

- **Security & Compliance**: PCI-DSS, SSL/TLS

- **Monitoring & Reporting**: Grafana, Prometheus, ELK Stack

- **Software Development**: PHP (vanilla, Laravel, Symfony), Node.js, Vue.js

- **Databases**: OracleDB

Accomplishments:

- Successfully led the multi-disciplinary teams.

- Spearheaded the development of a smart faucet product, leading to its CE certification and readiness for mass production.

- Created an automated system for on boarding employees, reducing HR administrative work and improving operational efficiency.

- Championed user-centered design principles, ensuring that feedback from real users (customers, large faucet's facility's owners) directly influenced the development of new features.

~~~ *Professional Experiences* ~~~

Employer: SocMania GmbH (Est. by SAASolutions), Berlin.
Position: Head of Security Operations
Timeline: March 2024 – Present
Location: Hybrid

Key Responsibilities: @ SocMania GmbH

- *Security Operations Setup*: Established and led SocMania as a Security Operations Center (SOC), offering smart contracts to the market for comprehensive security assessments and vulnerability reporting.

- *Client Relations*: Conducted daily stand-up meetings with the CEO and sales team to gather customer requirements and ensure satisfaction with our security reports.

- *Security Resource Management*: Recruited and managed security professionals, primarily penetration testers, to conduct vulnerability assessments and produce actionable security reports for clients.

- *Smart Contract Life cycle Management*: Designed and automated the entire process of signing smart contracts, from initial customer engagement to executing security checks and generating human-readable reports.

- *Automation of Security Checks*: Automated recurring security assessments for customers, utilizing tools like Nessus to schedule and execute vulnerability scans according to the terms of smart contracts (daily, weekly, monthly checks).

- *Custom Tool Development*: Developed custom security check-up tools for common tasks, such as HTTP header checks, using Python and PHP to streamline the security assessment process.

- *Security Process Integrity*: Ensured that all security checkups and reporting processes were automated, secure, isolated, and encrypted to maintain customer confidentiality and data integrity.

- *Technical Liaison*: Acted as the primary filter for communication between management (CEO, sales) and technical teams (pen testers, developers, white-hat hackers), ensuring that customer requirements were met and projects were executed smoothly.

- *Security Audits in Software Development*: Conducted regular audits of software development processes, examining repositories for security vulnerabilities and bad coding practices. Used a combination of manual inspection and automated tools to trace issues in the code base.

- *Cloud & Cost Optimization*: Managed cloud resources across multiple providers (e.g., T-Com Cloud, Hetzner), optimizing costs and ensuring the security of cloud environments.

Technologies Used:

- **Cloud & Infrastructure**: T-Com Cloud, Hetzner, On premise Servers

- **Security Tools**: Nessus, Metasploit, DarkOwl, Kali Linux, Pentesting Tools

- **Cloud & Containerization**: Kubernetes (k8s), Podman,

- **Web Servers & Networking**: NGINX, Apache HTTPD, StrongSwan, Redis, Kafka

- **Databases**: MongoDB, OracleDB, MySQL, MySQL Aurora Cluster

- **Development Tools & Frameworks**: Java Spring Boot, Node.js, Angular

- **Monitoring & Reporting**: Grafana, Zabbix, CheckMK, SonarQube, Nagios

- **Scripting & Automation**: Bash, Ksh, Tsh, Python

- **Security Auditing**: Git repository structure checks, vulnerability scanning, secure coding practices

Accomplishments:

- Successfully set up SocMania as a fully functional Security Operations Center, establishing a steady stream of clients and delivering comprehensive security reports.

- Automated security checkup processes for customers through smart contracts, automating 90% of repetitive tasks, while improving consistency and reliability of security assessments.

- Developed custom tools to enhance security auditing and vulnerability scanning, improving efficiency and accuracy.

- Streamlined communication between technical teams and management, ensuring project milestones were achieved in alignment with customer expectations.

- Led security audits on software development practices, preventing vulnerabilities and fostering a culture of security in the development life cycle.

~~~ *Professional Experiences* ~~~

Employer: ATN LLC. Bowling Green, Kentucky, USA
Position: CTO.
Timeline: September 2021 - Apr. 2023

Key Responsibilities:

- *Logistics Operations Setup*: Established and led ATN LLC operations as a Logistics Operations Center (LOC).

- *Align organization resources*: Led the organization and internal processes to adjust to the needs of a private company specializing in logistics and setting up all of the required equipment and assets.

- *Platform development*: In the Logistics industry there are multitude of timely precise operations needs to be done, so for us to be perfect, we developed own platforms used in everyday business of load brokerage to the facility's and factory's operations regarding transport and logistics requirements.

- *Implementation of other frameworks*: Building up a Transport Management System that is going to operate in USA market is an difficult task where we had to implement various other corporations solutions, stuff like ELD trackers, PC Miler, one dot com, and similar.

- *Smart Contract Life cycle Management*: Designed and automated the entire process of signing smart contracts, from initial customer engagement to executing performance checks and generating human-readable reports.

- *Automation of Reports and Checks*: Automated recurring HR assessments for customers, utilizing own developed tools like to schedule and execute performance reports about the any particular division in organization or an individual worker, driver, etc, according to the terms of smart contracts (daily, weekly, monthly checks).

- **Development** of many internal tools used by organization in order to make better business decisions faster, with less percentage of error. Tools like different price scrapers and offer calculators. Tools that really can make difference in fast pacing situations of negotiations large contracts, loads, and heavy equipment necessary to carry out the transportation projects for some factory or storage facility.

Technologies used:

- **Clouds**: AWS, GPC, IBM Cloud

- **Systems Infrastructure**: bare metal IBM Aix, bare metal IBM xServers, bare metal DELL servers.

- **Networks Infrastructure**: Cisco, pfSense, PaloAlto

- **Systems Infrastructure**: QEMU/KVM local on premise servers on 4 different geo locations.

- **Web services stacks**: NGINX, php, phalconphp, MySQL, Angular, nodeJS, typescript, OracleDB. RabbitMQ

- **Containerization**: Podman

- **Monitoring & Reporting**: Nagios, Zabbix,

Accomplishments:

- Successfully set up ATN LLC as a fully functional Logistics Operations Center, establishing a steady stream of clients and delivering comprehensive delivery reports to their satisfied customers with improved logistics reliability.

- Developed complete platform required by an logistics organization. Developed the platform in close daily collaboration with drivers, dispatchers, brokers, and safety staff, ensuring every feature addressed real operational needs.

- Developed custom tools to enhance auditing and performance & efficiency reports about time and accuracy of our deliveries.

- Streamlined communication between technical teams and management, ensuring project milestones were achieved in alignment with their expectations.

- Led security audits on software development practices, preventing vulnerabilities and fostering a culture of security in the development life cycle.

~~~ *Professional Experiences* ~~~

Employer: Raiffeisen Bank Sarajevo, Bosnia And Herzegovina
Position: Network infrastructure and services expert.
Timeline: December 2018 – September 2021.

Key Responsibilities:

- *Review current NetOps & DevOps*: Established and led in review of internal audit operations, as an network infrastructure expert.
- *Development of internal tools*: Building own tools in order to be able to remotely back up and restore any networking pieces of equipment such as routers, switches, firewalls, load balances, etc, so we automated this whole process.
- *Migration of crucial services on the fly*: In the banking industry there are numerous mission-critical operations running in parallel, and all of these have to be secured and configured properly, one of my first tasks was to replace core load balance clusters with zero downtime.
- *Replacement of obsoleted hardware & software*: Among the replacement of old hardware with the new ones, executed seamlessly with zero downtime. I also lead the process of replacement of core services required for an bank, services such as identity and access management where I replaced complete HID 4tress infrastructure on the fly, with zero downtime.
- *Migration between different RH solutions*: Designed and executed plans for migration of versions of internally used red hat software platforms such as RHEL distributions and their famous open shift. Always making sure openshift clusters in different environments are healthy and fully scale able with banks needs.
- *Automation of Reports and Checks*: Automated recurring monitoring & alerting checks, and extended them on another level.
- *Containerization*: of the application stack, where such things are possible.

Technologies used:

Clouds: No clouds in the banks.
Systems Infrastructure: bare metal IBM Aix, bare metal IBM xServers, bare metal DELL servers. Bare metal HP servers.
Networks Infrastructure: Cisco, pfSense, PaloAlto, HID, KEMP, CheckPoint
Systems Infrastructure: VMware ESX, VMware ESXi, .
Web services stacks: NGINX, php, phalconphp, MySQL, Angular, nodeJS, typescript, OracleDB, MSSQL, .NET, TFS, etc.
Containerization: Podman, openshift, k8s.
Monitoring & Reporting: Nagios, Zabbix, Own made bash scripts.

Accomplishments:

- Successfully set up observe stations in organization to get better insight in the networking and other critical services.
- Developed complete platform required for monitoring for service desk operations people, in order to track and hunt the miss configurations and any issues in the every day banks business operations.
- Developed custom tools to make sure all systems & networking devices and components are correctly configured, and to be easy to replace / patch them.
- Streamlined communication between technical teams and management, ensuring project milestones were achieved in alignment with their expectations.
- Successfully replaced all obsoleted hardware and migrated services on their latest versions.

~~~ *Professional Experiences* ~~~

Employer: Snowfall AB, Stockholm, Sweden
Position: Networks, Systems Infrastructure & Services Architect / DevOps Lead
Timeline: Aug 2014 – Mar 2017
Team Size: 20+ engineers, working with multiple enterprise customers
Location: Stockholm, Sweden – Pionen White Mountains DC

Key Responsibilities

- Led full refactoring of **bare-metal and virtualized infrastructure** at the legendary **Pionen White Mountains Data center**, ensuring high availability and performance for mission-critical clients.

- Designed and implemented scale able architectures for customers including the **Central Bank of the EU**, **Arlanda Airport**, and **MTRX rail operator**.

- Migrated and stabilized legacy systems, introducing **PhalconPHP** and optimized database design to handle real-time, high-volume passenger requests.

- Built and optimized **APIs for ticketing platforms**, supporting complex workflows such as passenger on boarding, ticketing for boats/ferries, and advanced booking features (e.g., travelers with pets).

- Collaborated closely with customer stakeholders to align technical delivery with business-critical transport operations.

- Implemented monitoring and alerting pipelines across servers and services to prevent downtime.

Technologies Used

- **Hypervisors & Virtualization:** Bare metal servers, VMware ESX/ESXi, KVM/QEMU

- **Operating Systems:** Debian, CentOS, FreeBSD

- **Development:** PhalconPHP, PHP, Angular, Node.js

- **Databases:** MySQL, PostgreSQL, Oracle

- **Networking & Security:** Cisco, pfSense, CheckPoint

- **Monitoring & Logging:** Nagios, Zabbix, ELK stack

- **Infrastructure Management:** Ansible, Terraform, custom Bash/Python scripts

Accomplishments

- Refactored **MTRX passenger platform**, eliminating glitches and enabling thousands of real-time booking requests with zero downtime.

- Stabilized Arlanda Airport and EU Central Bank platforms, ensuring **mission-critical uptime**.

- Delivered **ferry ticketing system APIs**, enabling advanced booking workflows and passenger convenience features.

- Modernized Snowfall's data center operations with automation and monitoring, creating a reliable foundation for long-term customer growth.

~~~ *Professional Experiences* ~~~

Employer: Privredna Banka Sarajevo d.d.
Position: Systems & Networks Administrator / Solutions Architect / Developer
Timeline: August 2010 – August 2014
Team Size: Sole local IT lead supporting large branch network
Location: Sarajevo, Bosnia and Herzegovina

Key Responsibilities

- Solely responsible for the bank's IT operations across **400+ offices and 1000+ users**, covering systems, networks and applications.

- Maintained and administered banking core infrastructure including IBM AIX and AS/400 hosts, ensuring continuous SWIFT and transaction processing availability.

- Designed and operated power redundancy and disaster resilience (including diesel generator systems) to guarantee uninterrupted SWIFT connectivity and transactional continuity.

- Managed backups, patching, change control and security policies to meet banking regulations and audit demands.

- Built internal tooling to automate device provisioning, backups and network device configuration for routers, switches and firewalls.

- Coordinated with vendors and auditors for compliance checks, penetration tests and infrastructure refresh projects.

Technologies Used

- **Systems & Servers:** IBM AIX, IBM AS/400, VMware, Linux, Windows Server

- **Core Banking / Messaging:** SWIFT gateways, transaction processing middleware

- **Networking & Security:** Cisco, KEMP, CheckPoint, Firewalls, VPNs

- **Databases & Apps:** OracleDB, MSSQL, PHP/Java apps supporting banking operations

- **Monitoring & Automation:** Nagios, custom bash scripts, Zabbix integrations

- **Power & Resilience:** Diesel backup generators, UPS architecture, redundant network links

Accomplishments

- Built and ran a resilient infrastructure guaranteeing continuous SWIFT operations, backed by diesel power and rigorous DR procedures — critical for banking continuity.

- Automated device and configuration management workflows, significantly reducing manual intervention and configuration drift.

- Hardened AIX and AS/400 environments and improved patch & backup discipline, resulting in stronger audit outcomes and fewer incidents.

- Implemented monitoring and early-warning systems that detected configuration issues before service impact, shortening response cycles and improving reliability.

~~~ *Professional Experiences* ~~~

Employer: UniCredit Group — Sarajevo, Bosnia and Herzegovina
Position: Networks, Systems Infrastructure & Services Architect
Timeline: November 2006 – December 2009
Team Size: Cross-functional work with multiple teams and external vendors
Location: Sarajevo, Bosnia and Herzegovina

Key Responsibilities

- Designed, built and led the infrastructure for a newly created regional data center to support UniCredit's banking operations after acquisition of two smaller banks.

- Developed secure APIs and integration layers between local bank systems and central banking authorities to support regulatory reporting and anti-fraud measures.

- Architected and administered mission-critical banking systems (networking, servers, storage, middleware) with strict SLAs and high availability requirements.

- Coordinated cross-border technical integration with group HQ and third-party vendors during migration and consolidation activities.

- Implemented secure connectivity and monitoring for transactional systems, ensuring auditability and traceability for sensitive financial flows.

- Performed architectural reviews, vulnerability assessments, and change control for systems handling high-value financial transactions.

Technologies Used

- **Systems & Servers:** IBM AIX, IBM AS/400, Linux, Windows Server

- **Middleware & Integration:** Custom APIs, SOAP/REST interfaces, message brokers

- **Databases:** Oracle DB, MSSQL

- **Networking & Security:** Cisco, firewalls, IPS/IDS, VPN, strong access controls

- **Automation & Monitoring:** Nagios/Zabbix, custom automation scripts (Bash/Python)

- **Virtualization / Storage:** VMware, SAN architectures

Accomplishments

- Designed and delivered a regional data center architecture from scratch, enabling UniCredit to consolidate operations securely and meet regulatory requirements.

- Implemented a custom API and integration layer that enabled real-time reporting and secure data exchange with central banking systems, improving detection and reporting of suspicious activities.

- Led successful migrations and consolidation projects with zero catastrophic downtime, preserving critical banking services during transitions.

- Hardened transactional systems and implemented monitoring/playbooks that reduced mean time to detect incidents and improved audit readiness.

~~~ *Professional Experiences* ~~~

Employer: Media Temple Inc., Culver City, California, USA
Position: Systems Architect / Remote DevOps Consultant
Timeline: (~1998–1999)
Location: Bosnia (remote) on-site for several weeks.

Key Responsibilities

- Remotely engaged, then relocated to **Media Temple HQ in Culver City**, to assist in scaling their infrastructure during the early Internet hosting boom.

- Designed and implemented optimized **QEMU/KVM hypervisor stack**, dating back to 1997 architecture, for running diverse Linux guests (Debian, CentOS).

- Helped establish scale able **LAMP stacks** for customers at a time when Media Temple became a leader in shared hosting and VPS infrastructure.

- Ensured seamless integration between legacy and modern systems, allowing Media Temple to expand services rapidly.

- Mentored internal engineers on automation, monitoring, and efficient hosting practices.

Technologies Used

- **Virtualization:** QEMU/KVM (optimized for 1997-era hardware)

- **Operating Systems:** Debian, CentOS, early Red Hat Linux

- **Web Stacks:** Apache, MySQL, PHP (LAMP)

- **Networking & Security:** Cisco, iptables, VPNs

- **Scripting & Automation:** Bash, Perl, early Python

- **Hardware:** Bare metal x86 servers, rack-based deployments

Accomplishments

- Optimized QEMU/KVM hypervisor for **multi distribution guest OS hosting**, allowing Media Temple to provide reliable services across Debian and CentOS.

- Pioneered one of the earliest **scale able LAMP hosting infrastructures**, supporting Media Temple's rapid rise in the US hosting industry.

- Helped establish operational practices that enabled Media Temple to serve thousands of customers efficiently.

- Contributed to the legacy of Media Temple as a pioneer in modern hosting, before its later acquisition by GoDaddy.

~~~ *Rest of My Professional Experiences* ~~~

In a form of a not so detailed list.
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**Employer**: Technical Overhauling Institute Hadžići, Bosnia And Herzegovina
**Position**: Networks Systems Infrastructure & Services Architect, DevOps, NetOps & SecOps Lead.
**Actual work**: Setting up everything required by an institute for overhauling of military equipment and factory.
**Timeline**: June 2018 – December 2018
~~~
Employer: TV Beat London, United Kingdom.
Position: DevOps engineer.
Actual work: Clouds, Analytic Engine, building a tracking engine to be able to measure exposition of TV stations across the globe using EPG.
Timeline: November 2017 - June 2018
~~~
**Employer**: SAPPI Graz, Austria.
**Position**: Platform engineer
**Actual work**: Find everything what is wrong in current set up of the communication systems in one of the largest euro based mills producing paper.
**Timeline**: April 2017 - October. 2017
~~~
Employer: Team Consulting ISP d.o.o. Sarajevo, Bosnia & Herzegovina
Position: Systems & Networks Administrator, Software developer
Actual work: As systems & Networks administrator I was resolving large-scale ISP challenges, including user complaints about connectivity and performance.
Timeline: January 2006 – October 2006
~~~
**Employer**: NTCHS – New Technologies Computer Hardware Sofware d.o.o. Sarajevo, Bosnia And Herzegovina
**Actual work**: Here I actually build everything from scratch that later on become one of the largest pan euro IT equipment distributors known as Comtrade.
**Position**: Networks Systems Infrastructure & Services Architect
**Timeline**: Feb. 2002 – Dec. 2007 = > 5 years and 10 months.
~~~
Employer: DSD Djikic Software Development d.o.o. Sarajevo, Bosnia And Herzegovina
Position: Software developer.
Actual work: As software developer here I got several projects that I had work on from the idea to the final production stage of multitude of services DSD do for their customers.
Timeline: August 2001 - January 2002 = > 6 months contract, that I did not wish to extend.
~~~
Employer: Techno Comp d.o.o. Bihać, Bosnia And Herzegovina
Position: System & Networks Administrator, Solutions Architect, Software developer, Teacher for GNU Linux.
Actual work: Assembling of Gog knows how many setups of small business networks, servers and services for them. Development of internal platforms and tools, required for mid sized IT business to track it's operations.
Timeline: January 1997 - July 1998 = > 1 year and 6 months.

That would be all, in mean time I do side kick projects like https://dev.boaa.ba Bosnian Outdoor Activities Association, where you can find and participate in various outdoor activities, alone, or with your friends and family.

And other one I do for fun is digital classroom https://ucionica.dev.solint.ba where I am building this platform as digital classroom where people will be able to participate and learn stuff about computers, computers networks, programming, systems, GNU Linux mostly, etc.

~~~ *Short Skills Lists* ~~~

Identity and Access Management , Software Development Processes , Build Everything From Scratch , Infrastructure Optimization , Transport Management System , Meetings With Stakeholders , Infrastructure Management , Internal Audit Operations , Streamlined Communication , Vulnerability Assessments , Microsoft Windows Server , Security Vulnerabilities , Custom Tools Development , Development and Testing , ISO , Production Environments , Development Life Cycle , Logistics Organization , Network Infrastructure , Operational Continuity , Operational Efficiency , Stakeholder Engagement , Vulnerability Scanning , Communication Systems , Customer Expectations , Customer Requirements , Hardware Installation , Life Cycle Management , Production Operations , Regulatory Compliance , Clouds & Infrastructure , Coordinate Resources , Data Synchronization , Improving Efficiency , Logistics Operations , Platform Development , Process Improvements , Product Architecture , Project Requirements , Seamless Integration , Software Development , Workforce Management , Business Continuity , Business Operations , Ensuring Compliance Optimizing Resource , Performance Reports , Resource Management , Scripting Languages , Security Assessment , Security Operations , Strategic Solutions , Systems Development , Vendor Coordination , Identifying Issues , Industry Standards , Internal Processes , Logistics Industry , Multi-Disciplinary , Application Layer , Computer Hardware , Cost Optimization , Development Tools , Disaster Recovery , Local Development ,

Operating Systems , Process Integrity , Quality Assurance , Remote Monitoring , Reporting Systems , Safety Procedures , Skill Development , Solution Delivery , Vendor Management , Automated System , Banking Industry , Embedded Systems , Generate Reports , Internal Process , Managed Security , Project Delivery , Project Planning , Security Systems , Service Delivery , Upper Management , Cloud Platforms , Data Protection , Hardware Design , Mass Production , Security Audits , Security Checks , Team Management , Windows Servers , Asset Tracking , Best Practices , Business Goals , Data Integrity , Security Tools , Smart Contract , Core Services , Data Security , IT Operations , Secure Coding , Unreal Engine , Apache HTTPD , Bash Scripts , Fedora Linux , Google Cloud , Raspberry Pi , Service Desk , Web Services , Java Spring , Programming & Prototyping , VMware ESX & ESXi , Web Servers , Confluence , Kali Linux , Kubernetes , Metasploit , Networking , PostgreSQL , Prometheus , SUSE Linux , StrongSwan , Terraform , Typescript , BitBucket , Code Base , ELK Stack , GNU Linux , IBM Cloud , OSI Model , OpenShift , Oracle DB , Reporting , Saltstack , RabbitMQ , SonarQube ,   DataDog , Grafana , Keycloak , PC Miler , Angular , Ansible , FastAPI , FreeBSD , IBM Aix , Jenkins , Laravel , MongoDB , Nest.js , Next.js , Node.js , PCI DSS , PfSense , Splunk , Symfony , Aurora , DevOps , Docker , Podman , GitHub , GitLab , Heroku , ML Ops , Nagios , Nessus , NetBSD , NodeJS , NewRelic , Python , SQLite , Vercel , Vue.js , Zabbix , IBM AS400 , Azure , CI/CD , Kafka , MSSQL , Nginx , NixOS , Redis , Scrum , XEN , HTTP , Jira , QEMU , KVM , Ubuntu , VMware , AWS , Cisco , CentOS , Debian , SecOps

To be continued…

At the end some practical code and lines of mine:

BeautyfullApp – over the years I came up with my 10 liner base…
https://github.com/ebosnic/beautyfullapp

Avoid Repository, as it's name said as bad joke, it is something we should avoid, those who understand the code, will understand the joke, and what I am suggesting human kind to avoid in huge circles, hopefully.
https://github.com/ebosnic/avoidrepo/blob/master/tryme.cpp

NMCRUD – Since they blame me as mostly php oriented, I do js stuff as well, in this case fully operational nodeJS API with MongoDB for small shop.
https://github.com/ebosnic/nmcrud

Documentation ? When they ask me about it, I show them examples like this one:
https://enes.bosnic.net/?page=stranice/en/absitesbasic

That is how I do documentation part. Mostly ASCII for diagrams and + some paragraph or two of readable and proper English. But very usable and people say Thank you n00b for being good dude on documentation part. And then they send me some cookies.

This would be all, I hope you will have a chance to hire this hidden gem for the long term if possible, until my retirement, because I do not like to change seats so often any more. Thank you for your kind patience if you gone this far reading this resume, my tip hat to you and one big thank you.

Yours sincerely
Enes Bosnic aka n00b