

Karol Kozłowski, Linux engineer/programmer

PERSONAL DATA

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SUMMARY

I am an experienced DevOps Engineer and Linux Systems Engineer with a strong background in software development, specializing in infrastructure and security across a variety of sectors including banking and telecommunication. Skilled in creating and maintaining scalable, reliable infrastructure solutions, I am proficient in DBMS, CI/CD processes, configuration management, and SCM. My career has involved working both collaboratively in medium to large teams and independently, handling complex projects as a build manager and developer. My technical acumen spans a range of tools and technologies essential for modern cloud and containerized environments, emphasizing automation and continuous improvement in operational workflows.

WORK HISTORY

- 04/2024 - current** **NDA (large customer in banking sector)**, DevOps Engineer
Responsible for supporting the migration of on-premises infrastructure to cloud-based solutions, ensuring efficient and secure transitions. Maintaining robust infrastructure for authentication services, guaranteeing high availability and compliance with security standards. Utilizing HSM Luna to manage cryptographic keys and enhance the overall security posture of our services.
- 06/2023 - 02/2024** **NDA (large customer in banking sector)**, DevOps Engineer
Building and maintaining developer supporting infrastructure and tooling.
- 09/2022 - 02/2023** **Protocol Labs**, DevOps Engineer - IPFS gateway
*Building, growing, maintaining and providing guidance on running ipfs and ipfs-cluster at scale with an emphasis on providing a reliable, scalable and fast gateway service at **ipfs.io**.*
- 03/2019 - 09/2022** **UBS BSC Poland - Investment Banking**, IT Software Engineer (AD)
Cloud engineering team: enabling container-based deployments using VMware Tanzu and AKS. Automating infrastructure deployments with Terraform (IaC). Supporting public cloud migration (Azure).
- 03/2018 - 02/2019** **BNY Mellon Poland**, Specialist Systems Engineer / Programmer (VP)
*Developing internal container-based deployment platform using **HashiStack** (Nomad + Consul + Vault, Terraform). Improving team's SDLC with automated CI/CD processes. Supporting, refining and improving the deployment and performance of core products as a member of Site Reliability Engineering team. Working closely with the developers and operations teams to provide expertise in root cause analysis or develop automation allowing for self-healing of services.*
- 02/2016 - 02/2018** **UBS BSC Poland - Infrastructure & Security Eng.**, Linux Systems Engineer (AO)
*Developing internal operating system release based on the RHEL. Responsible for rating, testing and delivering security advisories to internal customers. Building and testing **Solarflare** driver and software stack for bank-wide usage. Developing internal tools supporting continuous testing, integration and delivery of various system components.*

03/2012 - 01/2016 **HERE, a Nokia company**, Senior Systems Engineer
Working using DevOps approach to develop automated deployment and configuration platform - a highly available solution to control thousand nodes around the world. Continuous integration and testing of Puppet manifests. Developing in-house solution for package ingestion and distribution (REST). Designing and developing AWS integration tools as well as planning on-prem to cloud migration.

03/2008 - 03/2012 **Tieto Poland**, Software Engineer
Linux system administrator and developer for high-load positioning protocol service. Build management, integration, design, development and system testing.

EDUCATION & COURSES

2023 LPI DevOps Tools Engineer (LPI000572223)
2015 Advanced Architecting on AWS
2010 Advanced MySQL Administration
2003 - 2008 Master of Science in Electronics and Telecommunication
Wroclaw University of Technology, Faculty of Electronics

PROFESSIONAL SKILLS

- **operating systems:** Expertise in Linux environments (RedHat, Debian), including kernel and userspace.
- **programming languages:** Proficient in Python, Ruby, Perl, and Bash; basic experience in Golang; skilled in building and debugging tools, with an understanding of C.
- **configuration management and orchestration:** Advanced skills in Ansible and Puppet, proficient with Terraform for infrastructure automation.
- **networking:** Deep knowledge in routing, forwarding, load balancing, and network security.
- **cloud and virtualization:** Experienced in managing and architecting solutions in AWS, Azure, VMWare, and KVM environments; adept at building cloud infrastructures from scratch.
- **CI/CD tools:** Proficient with GitLab CI, GitHub Actions, Jenkins, and other CI/CD platforms, ensuring effective and robust deployment pipelines.
- **database systems:** Competent with MySQL, PostgreSQL and other database technologies, enhancing data management and integration.
- **containerization:** Extensive experience with Docker, Kubernetes, and LXC, enabling scalable and efficient management of containerized applications.
- **security:** Knowledgeable in security practices related to both bare metal and cloud infrastructure, including server hardening and secure key management.

LANGUAGES

Polish native
English full professional proficiency
German elementary proficiency

PERSONAL INTERESTS

- Music
- Electronics
- Additive manufacturing

