

István Alexander Kuklin

DEVOPS PLATFORM ENGINEER · SOFTWARE DEVELOPER

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Experience

Lead DevOps & Infrastructure Engineer

Budapest, Hungary

S+H INFORMATIKAI KUTATÓ, FEJLESZTŐ ÉS SZOLGÁLTATÓ ZRT.

Feb 2025 - Present

- Leading infrastructure transformation for the company of 16 as the sole devops engineer and system administrator, transitioning operations from direct VM deployments to containerized environments and technically guiding developers. Saving 3-4x of the costs / resources by abandoning single-service VMs while implementing high-availability.
- Implemented CI/CD pipeline with security in mind, streamlined application deployment, speeding up iteration over the application versions significantly, automated away the need for most manual operations intervention upon shipping.
- Supplementary software development: authoring DÁP integration with a Go-based microservice and engineering a Rust application deployment versioning telemetry dashboard for our remotely managed clients, leveraging the optimal scope of this role to fully utilize my advanced engineering capabilities.
- Automated provisioning via Ansible, implemented centralized IdP with MFA both for our remote network and internal service access, and migrating public production to a high-availability Kubernetes cluster.
- Transitioned to IPv6 on our VPN, implemented high high-availability for the remote connections itself.

Back End Developer (single project)

Budapest, Hungary

SIRIUS SERVICES KFT.

Mar 2024 - Feb 2025

- Architected backend infrastructure in C# / ASP.NET for a national electronic tolling distributor and successfully managed its deployment on client systems.
- Proactively suggested and implemented an automated CI pipeline, speeding up the iteration of the project.
- Led the deployment of the whole projects remotely on the client's Linux systems, prompting a strategic decision to focus exclusively on dedicated, high-challenge DevOps and infrastructure roles moving forward.

Master Developer

Budapest, Hungary

ERICSSON

Jan 2023 - Dec 2023

- Collaborated on throughput optimization for a C++ microservice PoC, a message bus intended to serve as a high-performance specialized replacement for Apache Kafka.
- Collaborated on a Java Spring Boot-based adapter microservice. Suggested and implemented self-tests for the microservice of our team, easing the troubleshooting of cluster-level issues, improving maintainability and cutting time required for debugging.
 - Created custom debugging utilities in Python for microservice-related problems.
- Co-mentored five junior developers in software architecture and clean coding practices.
 - Set up an internal training collaboration (Git, filesystem, etc.) server for our team.
- Held unit-level coding practice presentations, focusing on modularity and reusability, and the inversion of dependencies.
- Proactively transitioned out of the role into specialized contracting when business developments significantly scaled back technical challenges, explicitly prioritizing a hands-on programming focus over stagnation.

Software Engineer

Budapest, Hungary

GRAPHISOFT

Mar 2022 - Jan 2023

- Managed backend release processes for Archicad, handling minor C++ development, troubleshooting our Jam-based declarative build system, and GCP/Kubernetes cloud infrastructure.
- Documented routine tasks and other onboarding related missing information for newcomers, automated repeating tasks (mostly in Python).

- Initiated a transition onward to seek a faster-paced environment with steeper technical challenges to accelerate my engineering growth.

Programmer intern

Budapest, Hungary

MICROSEC SOFTWARE ENGINEERING & CONSULTING LTD.

2018 - Mar 2022

- Established core technical capabilities alongside academic studies before promoting into a full-time Programmer role.
- Ported the MicroSigner digital signature tool to Linux using C++ and Java, and implemented a PKCS11 provider to emulate hardware tokens for remote HSM modules.
- Helped the crew transition from Subversion (SVN) VCS to Git.
- Created Docker container image for one of our services.
- Leveraged system deployments to build practical foundations in Linux administration and networking, serving as a highly genuine software engineering foundation early in my career.

Projects & hobbies

Key Container Project

Óbuda University

ACADEMIC RESEARCH & DEVELOPMENT

Jan 2021 – Dec 2021

- Inspired by software engineering work at Microsec Ltd., spearheaded an initiative to repurpose dated Android devices as sealed encryption key holders by emulating OpenPGP Smart Cards.
- Awarded the Section First Award at the Student's Scientific Associations Conference of Óbuda University for the technical execution of the project.
- Developed core competencies in databases, applied cryptography, and foundational computer science principles.

Anki Docker Image & Community Contributions

Open Source Community

ANKICOMMUNITY GITHUB ORGANIZATION

Jan 2020 – Dec 2020

- Engineered `kuklinistvan/anki-sync-server`, a custom Docker container image for self-hosted Anki SRS synchronization that achieved over 1 million downloads on Docker Hub.
- Invited to the core AnkiCommunity GitHub organization following deployment success, where I architected and built the community's central landing page before a planned transition off the project.
- Utilized containerization, DevOps automation, and cross-functional team communication to scale community adoption.

Home Roaming Network Profiles

Personal Sandbox

SYSTEMS INFRASTRUCTURE EXPERIMENT

Jan 2016 – Dec 2016

- Driven by early technical curiosity to build complex systems, designed and implemented a centralized user profile and authentication environment replicating enterprise-level roaming layouts at home building upon OpenLDAP, Kerberos and OpenAFS. Implemented SSO login and service access.
- Deployed open-source directory services on Ubuntu clients, later expanding infrastructure to accommodate Windows workstations via Active Directory emulation.
- Collaborated with high school faculty mentors to utilize the environment as a practical sandbox for mastering core networking, identity management, and Linux systems administration fundamentals.

Professional skills

Programming Languages

Python, C++, Rust, Go, Java, C#, JavaScript, TypeScript

Software & Infrastructure

Docker, Ansible, CI/CD: Jenkins, GitLab, Linux (Debian, RHEL, SLES)

Cloud services

Kubernetes, GCP

Further skills

Spoken Languages

Hungarian, English, German

Driving license

B2 (actively utilized)

Education

Óbuda University

Budapest, Hungary

BACHELOR'S DEGREE IN COMPUTER SCIENCE ENGINEERING

2018 - 2022