

Konstantin Kushnir

Senior DevOps Engineer | Infrastructure Automation | Software Developer

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Skills

Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)

CI/CD: Jenkins, ArgoCD, Atlassian Bamboo, CloudBees CD/RO, GitHub Actions, TeamCity

Observability & Logging: OpenTelemetry, Thanos, Prometheus, Grafana, Loki, Grafana Alloy, ELK Stack

Containers & Orchestration: Kubernetes, Helm charts, Docker, Docker Compose, Portainer

Infrastructure as Code: AWS CloudFormation, Terraform, GitOps

Workflow Orchestration: Apache Airflow, Argo Workflows

Programming Languages: Bash, Groovy, C, C++, Python, Go, Java Script, Tcl/Tk

Operating Systems: Linux, Windows, macOS

Databases: ClickHouse, MySQL/MariaDB, PostgreSQL, Oracle, SQLite

Tools & Methodologies: Security best practices, Installers and installations, VMware Workstation, VirtualBox, vagrant, VCS (Git/Perforce), JIRA, Bazel, Conan

Languages: English (proficient), Russian (native), Ukrainian (native), German (elementary)

Experience

Senior DevOps Engineer

Envista Holdings Corporation

11/2024 - Present

Project: Cloud-to-Factory Automation Ecosystem. Architected a distributed system integrating AWS cloud with physical manufacturing lines for global medical device production.

- Designed and implemented a comprehensive Cloud-to-Factory automation ecosystem from the ground up, supporting mission-critical production lines across 6 international sites (USA, Mexico, China, Czech Republic).
- Provisioned and managed scalable AWS EKS clusters and cloud resources using CloudFormation, ensuring fully reproducible and version-controlled environments.
- Engineered a robust deployment strategy leveraging Jenkins for automated builds (Docker/Helm) and ArgoCD for GitOps-based delivery to Kubernetes.
- Developed a custom framework to automate software lifecycle management and updates for standalone virtual machines located at remote manufacturing facilities worldwide.
- Architected a multi-tier monitoring system aggregating metrics and logs from remote factory sites into a centralized AWS EKS hub using Prometheus, Thanos, and Loki.
- Implemented an OpenTelemetry + ClickHouse pipeline for advanced structured log analysis and centralized visualization via Grafana.
- Established automated testing workflows using isolated staging environments to validate service stability before rolling out to production factory floors.

Senior Software Engineer

CloudBees Inc.

08/2019 - 06/2024

Project: CloudBees CD/RO (<https://docs.cloudbees.com/docs/cloudbees-cd/latest/>) automates and orchestrates software releases, pipelines, and deployments.

- Maintained on-premises development environments (Linux/Windows/Solaris/macOS/HP-UX/AIX) and cloud environments (AWS/GCP) for development, testing and demonstration purposes
- Maintained CI/CD processes
- Architected and maintained production-grade Helm charts and Docker images, enabling the transition of legacy services to modern containerized orchestration.
- Acted as a primary responder for software supply chain security, patching third-party component vulnerabilities and triaging code-level security issues to specialized engineering teams.
- Ported and maintained critical open-source libraries across disparate architectures (Linux/Windows/macOS/AIX), resolving deep-seated compatibility issues and backward-incompatibility challenges.
- Engineered and maintained a complex, multi-platform installer providing full UI/UX parity (GUI and CLI) across Windows, Linux, and macOS, ensuring a consistent deployment experience for enterprise customers.

Installer Developer

Electric Cloud, Inc.

10/2016 - 08/2019

Project: ElectricFlow® is an enterprise-grade DevOps Release Automation platform that simplifies provisioning, building, and releasing multi-tiered applications. Its model-driven approach to managing environments and applications lets teams coordinate multiple pipelines and releases across hybrid infrastructure in an efficient, predictable, and auditable way.

- Engineered a robust, unified installation framework designed to package and deploy multi-tiered enterprise applications across diverse OS environments (Windows/Linux/macOS).
- Managed the complete lifecycle of the installation subsystem, from architectural design and feature implementation to rigorous cross-platform validation and regression testing.
- Spearheaded research and prototyping of next-generation packaging technologies, evaluating modern alternatives to enhance the efficiency and reliability of the platform's delivery mechanism.
- Served as the Subject Matter Expert (SME) for the technical documentation team, defining the standards for installation guides and complex deployment workflows.
- Developed and maintained the software update logic, ensuring data integrity and backward compatibility during version migrations for high-availability enterprise clusters.

DBA, System Administrator

Department of National Police

12/2007 - 10/2016

- Engineered high-performance desktop applications using Tcl/Tk for complex statistical data analysis and visualization, facilitating data-driven decision-making for law enforcement.
- Designed and implemented automated data-extraction tools to generate mission-critical reports in multiple formats (XML, MS Office, Plain Text), streamlining administrative workflows.
- Developed specialized applications for mining and analyzing large-scale datasets, focusing on identifying patterns and trends within national-level databases.
- Administered high-security internal services, including RDBMS (Relational Databases), secure VPN gateways, and mail servers, ensuring 24/7 availability and data integrity.
- Optimized server maintenance tasks through advanced shell scripting, reducing manual overhead and improving the reliability of internal network services.

Education

Dniprotsky State Technical University

Ukraine

Specialist degree in the field of Radio engineering

09/2011 - 01/2016

Technical specialist of Radio Engineering, Radioelectronic Devices and Communication.

Open-source side projects

P1 **arch-updater** <https://github.com/chpock/arch-updater>

A granular update utility for Arch Linux designed for power users who demand full control and transparency over package upgrades.

Technology Stack: Shell, Linux

P2 **tlsmtls** <https://github.com/chpock/tlsmtls>

Package to provide SSL/TLS layer support for network connections in Tcl.

Technology Stack: C, Tcl, mbedTLS, cryptography

P3 **cookfs** <https://github.com/chpock/cookfs>

Tcl virtual filesystem using a compressed archive format to allow embedding multiple files in an archive.

Technology Stack: C, Tcl