

# Konstantin Kushnir

## Senior DevOps Engineer | Infrastructure Automation | Software Developer

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### Skills

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**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

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#### 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

### Dniprovsky 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 **tclmtls** <https://github.com/chpock/tclmtls>

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