

Konstantin Kushnir

Senior Software Engineer | DevOps | Developer | System Administrator

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Skills

Programming Languages: Tcl/Tk, Shell scripting, C, C++, Java Script, Windows shell, Power Shell Script, Perl Script, PHP, Java, HTML, CSS

Clouds/Containers/VMs: Docker, Kubernetes, Docker Compose, Helm charts, Terraform, AWS Services, Google cloud platform, vagrant, VMware Workstation

Operating Systems: Linux, Windows, macOS, FreeBSD, AIX, HP-UX,

CI/CD: CloudBees CD/RO, GitHub Actions, Jenkins, TeamCity

Databases: ELK Stack, MySQL/MariaDB, PostgreSQL, Oracle, SQLite

Other: Installers and installations, InstallJammer, Kerberos SSO, VCS (Git/Perforce/SVN), Network protocols, Reverse engineering, Security

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

Experience

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.

- Maintain on-premises development environments (Linux/Windows/Solaris/macOS/HP-UX/AIX) and cloud environments (AWS/GCP/Microsoft Azure) for development, testing and demonstration purposes
- Maintain CI/CD processes
- Design, provide and maintain docker containers (Windows/Linux) for individual application services
- Design, provide and maintain helm charts for deploying application services in a Kubernetes cluster
- Initial analysis and response to application component security issues
- Design, provide and maintain a special pre-configured demo distribution delivered as images (VirtualBox/VMware/AWS Marketplace/Microsoft Azure Marketplace) and docker containers
- Provide builds and updates for open source components and libraries, resolve configuration changes and backward incompatibilities.
- Port open source components and libraries between different platforms (AIX/Linux/macOS)
- Develop cross-platform installer used for packaging applications and software updates
- Troubleshoot application compatibility issues with different platforms/operating systems and third-party dependencies

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.

- Develop cross-platform installer used for packaging applications and software updates
- Work on design, implementation and testing of the installer
- Consult documentation team on installation guides
- Research and development of prototypes of modern technologies for installers

- Develop an application for statistical data analysis using Tcl/Tk GUI
- Develop an applications for creating reports (MS Office documents/XML/text formats)
- Develop an applications for big-data analysis
- Maintain and administer servers for internal services (e-mail/RDBMS/VPN etc.)

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

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

Technology Stack: C, Tcl, mbedTLS, cryptography

P2 **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

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

Plugin for Far Manager 3 that exposes Tcl interpreter for internal editor

Technology Stack: C, C++, Tcl