

JOE DEL NANO

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San Francisco based Software Engineer passionate about automation and developing & maintaining reliable systems. I have experience creating tooling for developer productivity, AWS architecture, and optimizing application & CI system performance. I also develop and manage a production web application to help students learn Organic Chemistry.

TECHNICAL SKILLS

Proficient Languages | Configuration Management: Bash, Go, Groovy, Python | Ansible, Chef, Salt
Software/Tools: AWS, Docker, DataDog, Grafana, Jenkins, Helm, Kubernetes, MySQL, Nginx, Packer, Prometheus, Terraform, Vault

OPEN SOURCE WORK / SOFTWARE PROJECTS

Contributor to [terraform-provider-vault](#)

- [PR #1, #2] Extend the acceptable fields and attributes available on the [gcp_auth_backend](#) resource

Contributor to [terraform-provider-mikrotik](#)

- [PRs] Develop features for terraform provider to manage mikrotik/RouterOS networking configuration

Contributor to various Jenkins Plugins

- [[ec2-plugin](#)—PR #1, #2] Enforce IMDSv2 by default for launched EC2 instances (security improvement) & update README to illustrate more extensive plugin configuration via Groovy
- [[workflow-cps-global-lib-http-plugin](#)—PR] Add feature (with tests) to make retrieval of Jenkins shared library via HTTP request more flexible

Creator of jOeCHEM (<https://joechem.io> | [YouTube Channel](#))

- Develop web application, deployed in AWS, to teach students Organic Chemistry I and II

WORK EXPERIENCE

Senior Software Engineer, Engineering Services — [Okta](#)

April 2023 – Present

- Develop Kubernetes (EKS) PaaS, enabling engineers to deploy apps on EKS clusters from YAML manifests
 - Add [CircleCI container-runner](#) as a platform resource and migrate teams off of CircleCI cloud runners to support Github IP restriction
- Collaborate with TechOps to implement and rollout a solution to [IP restrict](#) access to all of Okta's source code hosted on Github
- Replace static Artifactory access tokens throughout Okta's CI systems with [Vault vended, short lived tokens](#)

Senior Site Reliability Engineer — [Block](#)

October 2022 – March 2023

- Embed in Hardware CI Infrastructure team to design and lead the migration off of aging, one-off Chef infrastructure, resulting in standardizing on Block's wider SaltStack approach

CI Infrastructure Software Engineer — [Block](#)

April 2021 – October 2022

- Manage and configure the CI Infrastructure for Square Device Engineering (SDE) within Square Hardware
 - Migrate firmware compiling CI jobs from on-prem workers to autoscaling EC2 instances via [ec2-plugin](#)
 - Develop Chef cookbooks/recipes to configure all bare metal and AWS workers (Linux, MacOS, Windows)
- Lead re-architecting of Ruby on Rails CI orchestrator to support n number of Jenkins controllers (previously one) to remedy Jenkins scalability issues, increasing quarterly CI system availability from 96% to 99.9%
- Create a pytest plugin in the common Test Lab API to scalably publish device test metrics to DataDog
- Design and execute a blue-green upgrade process for Jenkins controllers with a quarterly upgrade SLO
- Redesign team's on-call documentation, mission, and create shadowing curriculum for new members

DevOps Engineer — [Motional](#)

May 2018 – March 2021

- Create "golden" containers for teams, enabling consistent CI build and local development environments
- Manage CI (Jenkins) for the organization, empowering jobs to execute on EKS, on-prem kubernetes, or EC2
 - Create and integrate Jenkins Shared Library to centralize common automation
- Deploy, manage, and upgrade internal, on-prem services such as Jira, Jenkins, and JFrog Artifactory

EDUCATION

University of Pittsburgh | Bachelor of Science: Chemical Engineering (2013 – 2017)