

JOE DEL NANO

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San Francisco based Software Engineer passionate about creating effective developer tools, platforms, and CI experiences. I also develop and manage a production web application to help students learn Organic Chemistry.

TECHNICAL SKILLS

Platforms: AWS, GCP, Kubernetes (EKS and GKE)

Proficient Languages | Configuration Management: Bash, Go, Python, Groovy | Ansible, Chef, Salt

Software/Tools: Docker, DataDog, Grafana, Jenkins, CircleCI, Crossplane, Helm/Helmfile, MySQL, NGINX, Packer, Prometheus, Terraform/Terragrunt, 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 [circleci-cli](#)

- [PR [#1](#), [#2](#)] Add JSON marshaling for various CLI commands for CircleCI

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](#), 1.9 million views)

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

WORK EXPERIENCE

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

April 2023 – Present

- Design and implement multi-cloud IaC approach to enable multi-cloud CI platform footprint (AWS and GCP)
 - Help achieve 50% of “main” branch builds of Okta’s flagship monolithic code base in GCP.
- Collaborate with TechOps to implement and rollout a solution to [IP restrict](#) access to all of Okta’s source code hosted on GitHub
- Develop Kubernetes (EKS) PaaS, enabling engineers to deploy apps on EKS clusters from YAML specification
 - Add [CircleCI container-runner](#) as a platform resource and migrate teams off of CircleCI cloud runners to support GitHub IP restriction
- Replace static Artifactory access tokens throughout Okta’s CI systems with [Vault vended, short lived tokens](#)
- Establish team’s first on-call rotation and practices, such as mission, processes, and shadowing curriculum

Senior Software Engineer, CI Infrastructure — [Block](#)

April 2021 – March 2023

- 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%
- Lead the migration off of aging Chef infrastructure to standardize on Block’s wider SaltStack approach
- 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 CI workers (Linux, MacOS, Windows)
- 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
- Revamp 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

EDUCATION

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