

JOE DEL NANO

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San Francisco based Software Engineer passionate about building reliable systems, user experience, and DevOps practices. I have experience with optimizing build pipelines, AWS architecture, and creating tooling for developer productivity. I also develop and manage a production web application to help students learn Organic Chemistry.

WORK EXPERIENCE

Software Engineer (Hardware) — Square

April 2021 – Present

- Administer Hardware's CI system (Jenkins), creating and troubleshooting pipelines
- Manage and configure Hardware's Tetrack workers, a fleet of physical compute and Square devices
 - Participate in an on-call rotation to ensure the availability and reliability of Tetrack workers

DevOps Engineer — Motional/Aptiv Autonomous Mobility

May 2018 – March 2021

- Create and maintain efficient CI pipelines for all teams within the organization
 - Provision Jenkins pipelines via code using Jenkins Job Builder and Declarative Pipeline
 - Create and integrate Jenkins Shared Library to centralize common automation, reducing code duplication and better standardizing pipelines
- Provide containerization support for new build pipelines and consistent development environments
- Create reproducible AWS infrastructure as a code with Terraform and Packer
 - Leverage Packer to create immutable AMIs for Jenkins workers
- Develop automation to eliminate pain points for the organization
 - Create tooling to generate and rebuild the package dependency tree in order to test new package releases, accelerating the software release process
 - Design and implement lifecycle policy for build artifacts stored on Artifactory, AWS ECR, and AWS S3
- Deploy, manage, and upgrade internal services such as Atlassian Suite, Artifactory, Jenkins, Klocwork
 - Plan and execute migration of on-premises Jira, Confluence, and Bitbucket services to AWS, greatly increasing reliability
- Administer Atlassian Suite and work with teams across the organization to define, implement, and automate their processes

TECHNICAL SKILLS (1 – PROFICIENT, 2 – INTERMEDIATE, 3 – ADVANCED)

Configuration Management: Ansible (2), Chef (1)

Languages: Bash (2), Go (1), Groovy (2), PHP (2), Python (2), Ruby (1)

Skills/Tools: AWS (2), Atlassian Suite (3), JFrog Artifactory (2), Git (3), Packer (2), Terraform (3)

Software: CMake (1), Docker (3), Grafana (1), Jenkins (3), Kubernetes (1), MySQL (1), Nginx (1), PostgreSQL (1), Prometheus (1)

SOFTWARE PROJECTS

Creator of jOeCHEM (<https://joechem.io>)

- Develop web application, deployed in AWS, to teach students Organic Chemistry I and II
- Monitor application using Prometheus and Alertmanager
- Create all website content where total video views are over 290,000

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

- Develop features for a terraform provider to manage mikrotik/RouterOS networking configuration

CERTIFICATIONS

AWS Certified Solutions Architect Associate – April 2019

EDUCATION

University of Pittsburgh, Pittsburgh, PA

Bachelor of Science: Chemical Engineering (2013 – 2017)