

Kshitij Patil

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[github](#) | [linkedin](#) | [Portfolio](#)

EDUCATION

Master of Science - Computer Science

University at Buffalo, The State University of New York

Aug 2022 - Dec 2023

Bachelor of Engineering - Computer Science

Smt. Kashibai Navale College Of Engineering

Aug 2016 - Jun 2020

EXPERIENCE

Incalus Inc

DevOps Engineer

May 2023 - Present

Fremont, CA

- Configured a **Kubernetes cluster** from scratch using **Kubeadm**, including setting up the **control plane** and **worker nodes**, resulting in a **34%** reduction in infrastructure costs.
- Automated **infrastructure provisioning** with **Terraform**, streamlining setup and reducing time by **37%**.
- Created **custom Kubernetes Controllers** in **Golang**, improving automation and resource management by **28%**.
- Engineered **CI/CD pipelines** with **GitLab CI/CD** and **GitHub Actions**, accelerating deployment cycles by **46%**.
- Spearheaded **ArgoCD-driven GitOps** workflows, optimizing deployment efficiency by **50%**.
- Integrated **Prometheus** and **Grafana** for monitoring and alerting, reducing downtime by **60%**.

Mckinley Rice

DevOps Engineer

Dec 2021 - Apr 2022

Pune, IN

- Achieved a **63%** reduction in **Mean Time to Recovery (MTTR)** by monitoring system logs and utilizing **Python scripts** to identify and resolve potential issues preemptively, preventing outages.
- Implemented **Nginx Ingress Controller** in **Kubernetes**, refining routing and enhancing app scalability by **20%**.
- Deployed and managed **containerized applications** using **Docker Swarm**, improving orchestration by **23%**.
- Optimized deployments with **Kubernetes**, achieving **35%** faster speeds and maintaining **99.9%** uptime.

Cognizant

Platform Engineer

Nov 2020 - Dec 2021

Pune, IN

- Reduced **microservices** deployment time by **45%** with **Jenkins, Git, SonarQube, AWS ECR, ECS, and Docker**.
- Automated **system tasks** and optimized workflows using **Bash scripts**, boosting operational efficiency by **30%**.
- Employed **Ansible** for streamlined software provisioning, leading to a **40%** reduction in deployment time.

PROJECTS

End-to-End Jenkins CI Pipeline with SonarQube Integration [Github](#)

- Built a **Jenkins CI pipeline** with stages for **cloning, installing dependencies, linting, unit testing**, generating **coverage reports**, **SonarQube** analysis, and pushing **Docker images** to Docker Hub with commit ID tags.

FabriQuik [Github](#)

- Developed an intuitive **CLI tool** in **Golang** that **simplifies** the setup of **permissioned blockchain networks**.

Infrastructure Management with Terraform [Github](#)

- Implemented **Terraform** projects including **AWS EC2 remote provisioning, DynamoDB creation, S3 remote backend setup, secret management**, and **Terraform Workspaces**.

Blockchain Network Deployment using Kubernetes [Github](#)

- Deployed a Hyperledger Fabric Permissioned Blockchain Network on a **Kubernetes cluster**, utilizing **Deployments, Jobs, ConfigMaps, Secrets, Persistent Volumes with NFS**, and **NGINX Ingress controller**.

SKILLS

Programming Languages - Go, Python, Bash, Javascript, Groovy

Cloud - AWS-EC2, S3, RDS, ELB, ALB, Auto Scaling, IAM, VPC, Route53, Lambda, Azure

Containerization - Kubernetes, Amazon EKS, Amazon ECS, Docker, Helm, Docker-Swarm, Container Security

Infrastructure Management (IaaS) - Terraform, Ansible, CloudFormation, Puppet

CI/CD - Jenkins, Github actions, GitLab CI/CD, ArgoCD

Database Management - MySQL, PostgreSQL, CouchDB, MongoDB, Neo4j.

Software Methodologies - Agile, JIRA, SCRUM, Design Patterns, Microservices, REST, GRPC, Multithreading, Concurrency, Test-Driven Development (TDD), Code Quality Review.

Monitoring and Logging - Prometheus, Grafana, ELK Stack, CloudWatch

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD)

Badge