# Kshitij Patil

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github | linkedin

## EDUCATION

**Master of Science - Computer Science**                                           **Aug 2022 - Dec 2023**

*University at Buffalo, The State University of New York*

**Bachelor of Engineering - Computer Science**                                     **Aug 2016 - Jun 2020**

*Smt. Kashibai Navale College Of Engineering*

## EXPERIENCE

**Incalus Inc**                                                                    **May 2023 - Present**

*DevOps Engineer*                                                                  *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**                                                                  **Dec 2021 - Apr 2022**

*DevOps Engineer*                                                                  *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**                                                                      **Nov 2020 - Dec 2021**

*Platform Engineer*                                                                *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

**Operating Systems -** Linux, Windows

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

**Infrastructure Management (IaaC) -** Terraform, Ansible, CloudFormation, Puppet

**Containerization -** Docker, Kubernetes, Helm

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

**Software Methodologies -** Agile, SCRUM, JIRA, Microservices, Test-Driven Development, Code Quality & Review.

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

## CERTIFICATIONS

**Certified Kubernetes Application Developer (CKAD)**                               **Dec 2023**

*The Linux Foundation*                                                             *Certification ID - LF-amlrmw6cjp*