

Kshitij Patil

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

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

Software Engineer

Fremont, CA

- Built **REST** and **gRPC** APIs in **GoLang** for **distributed systems**, reducing transaction times by **25%**.
- Developed **Go-based CLI tools** for automated infrastructure management, speeding up deployments by **44%**.
- Created **custom Kubernetes Controllers** in **GoLang**, improving automation and resource management by **28%**.
- Automated **infrastructure provisioning** with **Terraform**, streamlining setup and reducing time by **37%**.
- Optimized deployments with **Kubernetes**, achieving **35%** faster speeds and maintaining **99.9%** uptime.
- Spearheaded **ArgoCD-driven GitOps** workflows in deployment pipelines, optimizing efficiency by **50%**.

Mckinley Rice

Dec 2021 - Apr 2022

Software Developer

Pune, IN

- Architected a **Go SDK** for **RESTful** API access to **Blockchain smart contracts**, handling **1,000+** transactions/sec.
- Optimized **Go app performance** by **40%** through advanced **concurrency techniques** and **code refinements**.
- Reduced **MTTR** by **63%** through **log monitoring** and **Python automation** scripts to prevent outages.
- Implemented **Nginx Ingress Controller** in **Kubernetes**, refining routing and enhancing app scalability by **20%**.
- Engineered **CI/CD pipelines** with **GitLab CI/CD** and **GitHub Actions**, accelerating deployment cycles by **46%**.

Cognizant

Nov 2020 - Dec 2021

Software Developer

Pune, IN

- Designed a **Go microservices architecture**, enhancing system modularity by **50%**.
- Developed **automation tools** in **Python** for deployment and system management, reducing downtime by **60%**.
- Reduced **microservices** deployment time by **45%** with **Github Actions**, **SonarQube**, **AWS ECR**, **ECS**, and **Docker**.
- Employed **Terraform** for provisioning **AWS infrastructure**, leading to a **40%** reduction in deployment time.

PROJECTS

FabriQuik [Github](#)

- Created 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 Infrastructure 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**.

End-to-End 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.

SKILLS

Programming Languages: Go, Python, Java, Javascript, Typescript, Ruby, NodeJS, Shell Scripting

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

Containerization: Kubernetes, Amazon EKS, Amazon ECS, Docker, Helm, Docker-Swarm

Infrastructure as code: Terraform, Ansible, CloudFormation, Puppet, Chef

CI/CD: Jenkins, Github actions, GitLab CI, Circle CI, ArgoCD

Database Management: MySQL, PostgreSQL, CouchDB, MongoDB, Neo4j, NoSQL, SQL

Software Methodologies and OS: Agile, REST, gRPC, Design Patterns, test-driven development, Serverless, Web Services, Linux

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

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD)

Badge