# Kshitij Patil

patilkshitij735@gmail.com | 7162567615 | Sunnyvale, CA
 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**
*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%.**
- Engineered **CI/CD pipelines** with **GitLab CI/CD** and **GitHub Actions**, accelerating deployment cycles by **46%.**
- Spearheaded **ArgoCD-driven GitOps** workflows in deployment pipelines, optimizing efficiency by **50%.**
- Created **custom Kubernetes Controllers** in **Golang**, improving automation and resource management by **28%.**
- Developed **Python automation** for deployment and system management, reducing downtime by **60%.**

**Mckinley Rice**                                                                            **Dec 2021 - Apr 2022**
*DevOps Engineer*                                                                            *Pune, IN*
- Designed and deployed a **secure AWS network** with **Terraform**, using a **reverse proxy** in a public subnet, **EC2 instances** in private subnets, **NAT Gateway**, and **Internet Gateway**, enhancing security by **43%.**
- 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%.**
- Optimized deployments with **Kubernetes**, achieving **35%** faster speeds and maintaining **99.9%** uptime.

**Cognizant**                                                                                **Nov 2020 - Dec 2021**
*DevOps Engineer*                                                                            *Pune, IN*
- Reduced **microservices** deployment time by **45%** with **Github Actions, SonarQube, AWS ECR, ECS, and Docker.**
- Automated **system tasks** and optimized workflows using **Python** and **Bash** scripts, improving efficiency by **30%.**
- Employed **Terraform** for provisioning **AWS infrastructure**, leading to a **40%** reduction in deployment time.

## PROJECTS

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

**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.

**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**.

**FabriQuik Github**
- Developed an intuitive **CLI tool** in **Golang** that **simplifies** the setup of **Permissioned Blockchain Networks**.

## SKILLS

**Programming Languages:**  Go, Python, Bash, Shell Scripting, Java, NodeJS, Javascript, Typescript, Ruby
**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, Container Security
**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
**Software Methodologies and OS:**  Agile, REST, gRPC, DevSecOps, Service Mesh, Kubernetes Operators, Linux
**Monitoring and Logging:**  Prometheus, Grafana, ELK Stack, CloudWatch

## CERTIFICATIONS

**Certified Kubernetes Application Developer (CKAD)**                                         **Badge**