

Shubham Patil

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Hands-on Cloud Infrastructure Specialist with deep expertise in platform engineering, reliability, and automation at scale
Skilled in building resilient systems, CI/CD pipelines and driving DevOps strategy across AWS and Kubernetes environments

TECHNICAL SKILLS

Programming Languages/OS/Databases: Python, Golang, Bash Scripting, Linux, MySQL, PostgreSQL, Redis

Cloud/DevOps: AWS, Microsoft Azure, Terraform, Jenkins, Argo CD, GitHub Actions, GitLab

Containerization Tools: Docker, Kubernetes, EKS, ECS, Istio, Helm, Ingress Controller

Observability: Prometheus, Grafana, CloudWatch, Elastic Search, Logstash, Kibana

Tools: Git, RabbitMQ, Jira, SonarQube, Defect Dojo, Syft, Grype, Semgrep, RESTful APIs

Certifications: Certified Kubernetes Application Developer (CKAD), AWS Solutions Architect, AWS Cloud Practitioner, Jenkins

WORK EXPERIENCE

Senior DevOps Engineer, Changing the Present

Sep 2024 – Present

Technology Stack: GitLab CI, Python, Java, EC2, S3, Terraform, SonarQube, SAST, SCA, Docker, Kubernetes, Git, Maven

- Built GitOps-driven CI/CD pipelines with Argo CD and GitLab, enabling 20+ deployments per week with 2% rollback rate
- Containerized 25+ microservices with Docker, deployed on Kubernetes to handle 3x traffic spikes without downtime
- Integrated Prometheus and Grafana for monitoring, reducing incident detection time from 25 to 7 minutes during peak usage
- Embedded image scanning and linting in CI, blocking 4+ critical issues from reaching production
- Standardized Java builds using Maven, improving artifact traceability and reducing build failures across teams by 30%
- Drove DevOps adoption across two Agile teams, cutting release cycles from 10 to 3 days

DevOps Engineer, University of Texas at Dallas

Jan 2024 – May 2024

Technology Stack: CI/CD, Python, Bash, YAML, AWS, SDLC, Grafana, Prometheus, SQL, Linux, AWS Lambda

- Automated Lambda and DynamoDB provisioning using Terraform to support a real-time EC2 alerting dashboard
- Built a Python-based GitLab monitor that sends Slack alerts on pipeline failures, improving developer response time
- Automated CI/CD workflows using Bash, Python, and YAML, eliminating manual errors and cutting deployment time by half
- Deployed Grafana Mimir for high-scale metrics ingestion from 130+ EC2 instances for tuning replication

Senior Software Engineer, Balasai Networks

Sep 2021 – Aug 2022

Technology Stack: Python, Bash, YAML, AWS, Grafana, Prometheus, GitHub Actions, Syft, Grype, Defect Dojo, ELK Stack

- Led 10+ AWS Well-Architected Reviews, saving \$35K+ and improving resiliency through cross-functional collaboration
- Designed and deployed AWS EKS microservices with NGINX Ingress and ALB, enabling 15+ zero-downtime deployments daily
- Automated CI/CD with GitLab, Jenkins, and Terraform; reduced rollback rate 6x and mentored teams on best practices
- Implemented observability with Prometheus, Thanos & Grafana cutting SLA breaches by 80% and enhancing reliability
- Centralized logs for 300+ containers using ELK Stack, reducing incident resolution to under 30mins via better log correlation
- Automated failover, patching, and provisioning for 50+ nodes with Terraform and Auto Scaling, ensuring continuous uptime
- Integrated SAST tools in CI/CD, catching 90% of critical issues in PRs and accelerating deployment readiness by one sprint

Software Engineer, Softman Consulting Services

Jan 2020 – Aug 2021

Technology Stack: Terraform, AWS, Jenkins, GitHub Actions, Docker, Kubernetes, Python

- Provisioned 100+ cloud resources via Terraform, cutting setup time to 10 minutes and ensuring deployment consistency
- Built CI/CD pipelines using Jenkins and GitHub Actions, reducing lead time and enabling 20+ weekly releases
- Integrated SonarQube, Nexus, and JUnit to block critical bugs and maintain 90%+ test coverage
- Containerized 15+ services with Docker, simplifying workflows and reducing onboarding by 2 days
- Managed EKS clusters for 1M+ users with autoscaling and zero-downtime rollouts via HPA
- Deployed Prometheus and Grafana for alerts in 5 mins, reducing incident response from 90 to 25 mins
- Architected HA infra on AWS (EC2, ALB, RDS, S3), serving 10K+ users and saving \$3.2K per month
- Centralized logs from 300+ pods using ELK, cutting RCA time by 50% and improving post-incident reviews

EDUCATION

The University of Texas at Dallas

May 2024

Master of Science, Information Technology

Savitribai Phule Pune University

May 2020

Bachelor of Engineering, Computer Science

PROJECTS

AWS IAM Authenticator for Kubernetes | *AWS IAM, CloudTrail, EKS* | [Link](#)

- Delivered seamless Kubernetes cluster access by integrating AWS IAM authentication, enhancing security and user experience
- Implemented dynamic user/role mapping with multiple backend support (Config, EKS, CRD), boosting operational agility
- Enabled secure, auditable access using AWS security features to facilitate audit logging for 100% of access events

Cloud-Native Microservices Deployment on AWS EKS | *Docker, Helm, Kubernetes*

- Enabled dynamic scaling on EKS using Horizontal Pod Autoscaler based on CPU and memory metrics
- Automated infrastructure setup using eksctl, Helm and YAML manifests to ensure repeatable and scalable deployments
- Defined liveness and readiness probes to maintain application health and enable seamless rolling updates

Scalable Multi-Cloud Infrastructure Provisioning (AWS + GCP) | *Terraform, GCP, Git, Secrets* | [Link](#)

- Built fault-tolerant multi-cloud infrastructure with Terraform GitHub Actions, improving uptime and disaster recovery posture
- Streamlined infra provisioning with modular Terraform, enabling faster environment spin-up and prevent config drift
- Enforced secure, auditable deployments by integrating secret rotation and access controls into GitHub Actions workflows

Web 3-Tier File System | *JavaScript, Python, HTML, Flask* | [Link](#)

- Developed a highly available and cost-effective 3-tier web application for uploading, updating, deleting and downloading files in S3, accessible over the public internet through Route 53
- Developed RESTful APIs to streamline communication between frontend and backend, facilitating future integrations and automated workflows
- Optimized deployment readiness using Gunicorn and Nginx, ensuring high performance and simplified deployment processes

End-to-End AWS Deployment with CodePipeline & Docker | *ECR, Docker, CodeBuild, IAM* | [Link](#)

- Provisioned AWS infrastructure (S3, ECR, IAM, Elastic Beanstalk) via Terraform, reducing setup time from hours to minutes
- Enabled **cross-stack application support (NodeJS, Go, Python)** using Dockerized pipelines and custom build workflows
- Maintained fully versioned and reproducible environments, ensuring scalable and consistent deployments