Vishal Shaji

Cloud & DevOps Engineer

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Experience

Jul 2025 – Present
DevOps Engineer Trainee – UPS Logistics Platform, *Cognizant Technology Solutions*, Chennai, India
- Automated infrastructure provisioning for UPS package tracking microservices using Terraform on AWS, reducing deployment cycles from 4 hours to 20 minutes.
- Built Jenkins CI/CD pipelines for containerized shipment processing services, orchestrating multi-region deployments to ECS Fargate with zero-downtime releases.
- Implemented real-time monitoring for delivery route optimization APIs using Prometheus and Grafana, establishing SLA dashboards tracking 99.9% uptime.
- Managed EKS clusters handling 50K+ parcel status requests/min, implementing horizontal pod autoscaling and optimizing resource utilization by 35%.

Jan 2025 – Jun 2025
Tech Consultant (Intern), *Bommaku Constructions*, Hyderabad, India
- Advised executive management on cloud-based workflows to facilitate real-time client demonstrations.
- Developed architectural visualizations using Unreal Engine 5 for key stakeholder presentations using AWS EC2.

Projects

Hybrid-Cloud Game Server SaaS, *TerraLess*, `https://www.terraless.com`
- Architected a high-performance SaaS platform using an AWS Serverless control plane (Lambda, DynamoDB, Cognito) to manage stateful Hetzner Cloud instances, reducing hosting costs by 90%.
- Engineered a storage layer on NVMe using Btrfs, developing automated shell scripts for incremental snapshots with data freeze times under 100ms and a 60s RTO.
- Designed a rule-based automation engine in Node.js to trigger auto-shutdown policies based on real-time metrics, slashing active compute runtime by 60–80%.
- Deployed a scalable Nginx-based ingress layer to shield backend IPs and implemented automated firewall rules for DDoS mitigation across game nodes.

Serverless Resume Infrastructure, *AI-Latex-Editor*, `https://github.com/Vishhh03/Latex-Resume`
- Provisioned AWS infrastructure via Terraform IaC (ECS Fargate Spot, Lambda, SNS, IAM), reducing monthly cost from $50+ (always-on EC2) to under $1.
- Engineered wake-on-demand architecture with 60s cold start and auto-shutdown after 10min idle, cutting compute hours by 95%.
- Implemented Budget Kill Switch (SNS + Lambda) to auto-disable infrastructure when spend exceeds $5/month threshold.
- Integrated Amazon Bedrock (Qwen) for AI-driven LaTeX patching with xelatex compilation and auto-commit to GitHub.

Education

2021 – 2025
Bachelor of Technology (B.Tech) – Civil Engineering, *TOCH Institute of Science and Technology*, Kochi, India
- Minor in Machine Learning
- Led a final year project focused on Kochi Metro analytics using Machine learning which won Best Paper Award in International Conference (ICITES).

Technical Skills

Cloud & Infra AWS (Lambda, DynamoDB, Cognito, EC2, S3, CloudWatch, ECS), Hybrid-Cloud (AWS + Hetzner), Docker, Kubernetes, Terraform, Serverless Framework

DevOps GitHub Actions, Git, Bash Scripting, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)

Systems Linux (Ubuntu, Amazon Linux), Btrfs Filesystem, Nginx Reverse Proxy, DDoS Mitigation, RCON Protocol

Development Node.js, Python, JavaScript, C#, SQL, Next.js, React, Angular, .NET Core

Databases PostgreSQL, SQL Server, DynamoDB, MongoDB, RDS

Certifications

AWS Certified Cloud Practitioner

AWS Certified AI Practitioner
OCI Associate Architect