

Vishal Shaji

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Cloud & DevOps Engineer

Experience

- Jul 2025 – Present **Programmer Analyst Trainee**, *Cognizant Technology Solutions*, Chennai, India
- Architected and deployed a multi-tier hotel management system utilizing Angular, .NET Core, and SQL Server.
 - Containerized microservices using Docker and automated deployment workflows via GitHub Actions CI/CD pipelines.
 - Established comprehensive observability using Prometheus, Grafana, and the ELK Stack for centralized logging.
 - Managed collaborative Git workflows, including version control strategy and peer pull request reviews.
- 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