

Shubham Dwivedi

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PROFESSIONAL SUMMARY

Cloud Engineer with 3+ years of experience operating **production AWS infrastructure** with a focus on **high availability, reliability, scalability, and continuous improvement**. Hands-on with **Terraform, ECS/Fargate, Docker, Kubernetes/EKS, CI/CD, observability, incident response, and disaster recovery**. Strong in **SRE practices, troubleshooting complex systems, analytical problem-solving, cloud infrastructure automation, and AI-driven engineering workflows**.

WORK EXPERIENCE

Cloud Engineer

Dec 2024 – Present

Tata Consultancy Services (TCS)

Bangalore, India

- Managed **AWS infrastructure supporting 30+ microservices** across ECS Fargate, EFS, NLB, Lambda, IAM, and CloudWatch, maintaining **99.9% uptime** for business-critical, high-availability workloads.
- Investigated **deployment failures, connectivity issues, service-health problems, and performance bottlenecks** using logs, metrics, and application telemetry; partnered with development teams on **root-cause analysis, issue triage, and service restoration**.
- Introduced deployment validation and rollback safeguards across production environments, reducing **deployment-related service interruptions by 30%**; supported Docker and ECS deployment troubleshooting and reliability improvements.
- Enforced **IAM least-privilege and security controls**, supported **5+ external audits**, and executed disaster recovery and failover validation across 30+ AWS-hosted services.
- Built a **Terraform Engineering Copilot** using GitHub Copilot, Terraform, Jira, Node.js, and PowerShell to automate infrastructure validation and Pull Request workflows, reducing **manual engineering effort by 50%**.
- Developed a **FinOps Dashboard Agent** to analyze AWS spending and identify cost optimization opportunities, helping drive **15% monthly AWS cost savings** through resource utilization analysis and data visualization.

Cloud Engineer

Oct 2023 – Dec 2024

Tata Consultancy Services (TCS)

Pune, India

- Developed reusable **Terraform modules** for EC2, S3, and RDS provisioning, reducing configuration errors by **40%** and shortening infrastructure provisioning from hours to minutes while improving repeatability and scalability.
- Designed and maintained **Bitbucket CI/CD pipelines** with automated testing and release validation, reducing manual release effort by **50%**; troubleshooted deployment failures and standardized runbooks to reduce **MTTR by 20%**.

PROJECTS

Terraform Engineering Copilot

- Built a repository-aware AI workflow using **GitHub Copilot, Terraform, Jira, Node.js, and PowerShell** to analyze Terraform repositories and generate infrastructure changes aligned with repository standards.
- Implemented **Terraform validation, Git automation, and human approval workflows**, taking infrastructure requests from Jira analysis through Bitbucket Pull Request creation.

FinOps Dashboard Agent

- Built an AI-powered **FinOps Dashboard Agent** to analyze cloud cost data, identify underutilized resources, and surface infrastructure optimization opportunities.
- Provided actionable **cloud cost analytics and data visualization** to support proactive rightsizing and cloud-spend decisions.

TECHNICAL SKILLS

Cloud & DevOps: AWS, CloudFormation, DevOps, Cloud Infrastructure, Infrastructure, Infrastructure as Code (IaC), CI/CD, Docker, Kubernetes, Terraform, Git, GitHub Copilot, Version Control, Google Cloud Platform, GCP

Systems, Programming & Databases: Linux, Linux/Unix, Unix, Python, Bash, Scripting, Programming, Programming Languages

Observability, Reliability & Operations: Grafana, Prometheus, OpenTelemetry, Tracing, Logging, Metrics, Monitoring, Incident Response, Reliability, Scalability, Networking, Performance, Security, Automation, Troubleshooting, Issue Triage

AI & Engineering: AI, Cursor, AI Automation, Autonomous Systems, Coding, Technical Design, Infrastructure Automation

Engineering Practices: Best Practices, Software Development, Software Engineering, Cloud-Native Development, Technical Problem Solving, Complex Systems, Enterprise Systems, Self-Service, Technical Documentation

Collaboration & Soft Skills: Communication, Problem-Solving, Collaboration, Team Collaboration, Teamwork, Ownership, Innovation, Innovative, Design, Development, Implementation

CERTIFICATION

Claude Certified Developer – Foundations

Aug 2026

Oracle Certified Cloud Architect – Associate

Oct 2025

EDUCATION

Jaypee Institute Of Information Technology

Jul 2019 – Jun 2023

Bachelor of Technology – Electronics and Communication

Noida, India