

RASHMI MURTHI

Bengaluru, India | +91 7899166711 | rashmi.pmurthi20@gmail.com

LinkedIn: [linkedin.com/in/rashmimurthi](https://www.linkedin.com/in/rashmimurthi) | GitHub: github.com/rashmimurthi



PROFESSIONAL SUMMARY

DevOps Engineer specializing in AWS infrastructure automation, CI/CD pipelines, and containerized deployments. Experienced in Terraform, Jenkins, Docker, and Kubernetes with a strong focus on scalability, cost efficiency, and reliability. Proficient in monitoring and observability using CloudWatch and Grafana, optimizing deployment time and minimizing downtime. Skilled in Python and Shell scripting for automating AWS tasks, with a proven ability to deliver secure and consistent environments through DevSecOps practices.

CORE COMPETENCIES

- **Cloud Platforms:** AWS (EC2, S3, RDS, VPC, IAM, CloudFront, Route 53, Lambda, Auto Scaling, ALB)
 - **Infrastructure as Code:** Terraform, CloudFormation, Ansible
 - **CI/CD & Automation:** Jenkins, GitHub, Maven, SonarQube, Argo CD
 - **Containerization & Orchestration:** Docker, Kubernetes (EKS)
 - **Monitoring & Logging:** CloudWatch, Prometheus, Grafana, Trivy
 - **Scripting & Configuration:** Shell, Python, YAML
 - **Operating Systems and Tools :** Linux (Ubuntu, CentOS), Zendesk, Jira
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PROFESSIONAL EXPERIENCE

Cloud Engineer (Internship) | MicroDegree Pvt. Ltd. | Mar 2025 – Present

- Automated provisioning of AWS resources (EC2, VPC, RDS) using Terraform, cutting setup time by 50 %.
- Built CI/CD pipelines with Jenkins, GitHub, and Docker, reducing manual deployment steps by 70 %.
- Deployed and managed containerized workloads on EKS, improving scalability and uptime.
- Configured CloudWatch and Grafana dashboards for proactive monitoring and alerting, lowering MTTR by 30 %.
- Conducted 10+ internal knowledge-sharing sessions on DevOps automation and cloud best practices.

Result: Delivered stable and repeatable cloud environments while accelerating deployment velocity.

Fraud Specialist | Lloyds Banking Group, UK | Mar 2023 – Feb 2024

- Investigated data patterns and anomalies using analytical tools, enhancing fraud detection accuracy by 20%.
- Collaborated with IT and risk teams to streamline report automation and incident management workflows.
- Applied problem-solving and monitoring experience transferable to DevOps observability and reliability.

Customer Service Advisor | Sitel Group, UK | May 2021 – Mar 2022

- Collaborated with internal technical and logistics teams to troubleshoot, resolve, and document complex customer issues.
- Utilized ticketing tools (Zendesk) to manage workflows, track SLAs, and analyze recurring technical trends.
- Created process documentation and feedback reports to improve system usability and customer satisfaction.

Key Outcome: Improved resolution efficiency by reducing repeat escalations and enhancing end-user experience.

TECHNICAL PROJECTS

1. Complete DevSecOps Pipeline for Java Application (GitOps + Terraform)

- Built a secure CI/CD pipeline using Jenkins, Docker, SonarQube, and Trivy for code and image scanning.
- Automated infrastructure with Terraform and deployed containerized apps to EKS via Argo CD (GitOps).
- Configured Prometheus and Grafana dashboards for real-time observability.

Result: Achieved 100% automated deployments and shortened release cycles by 35%.

2. AWS 3-Tier Architecture with Auto Scaling and RDS (Manual + Terraform)

- Designed and deployed a secure 3-tier architecture separating web, app, and database layers on AWS.
- Implemented ALB with Auto Scaling to ensure high availability and fault tolerance across multiple AZs.
- Automated provisioning of VPC, EC2, RDS, and networking components using Terraform.
- Configured S3 with CloudFront and ACM to deliver static content securely over HTTPS.
- Integrated CloudWatch monitoring for EC2 and RDS performance metrics.

Result: Reduced manual provisioning time by 80% and improved infrastructure consistency across environments.

3. Cloud Automation with Python & Shell Scripting

- Developed automation scripts using Python (Boto3) and Shell to manage EC2, S3, and IAM.
- Integrated Lambda with CloudWatch to detect and remove stale resources automatically.

Result: Optimized resource utilization and reduced manual cleanup tasks by 40%.

CERTIFICATIONS

AWS Certified Cloud Practitioner – Amazon Web Services (AWS) | Valid through Oct 2025

AWS re/Start Graduate – AWS Training & Certification | Issued Oct 2022

AWS Cloud Quest: Cloud Practitioner – Hands-on Training Badge | Issued May 2025

EDUCATION

MSc, Project Management – Northumbria University, United Kingdom | Sep 2019–2021

B.E., Civil Engineering – Visvesvaraya Technological University, India | 2015–May 2019