MOON RATHI

• Greater Noida, India • moonrathi111@gmail.com • 09013062131 • in/moon-rathi • github.com/MRathi2303

SUMMARY

B.Tech Computer Science student specializing in Cloud Computing, with hands-on AWS experience in Terraform, Docker, and GitHub Actions. DevOps Intern at Mactores, building secure, scalable, production-ready cloud infrastructure and CI/CD pipelines.

EXPERIENCE

DEVOPS ENGINEERING INTERN - MACTORES **June 2026 - Present, REMOTE**

- Attained the **Claude Certified Architect – Foundations** certification from Anthropic, validating expertise in Claude's model architecture, capabilities, and enterprise deployment use cases.
- Built proficiency across core AWS compute, storage, networking, and security services (EC2, S3, IAM, VPC, Lambda) alongside DevOps fundamentals through a structured technical training program.
- Analyzed Claude and Generative AI integration patterns within AWS environments, including Amazon Bedrock, translating Anthropic certification knowledge Into applied understanding of AI-assisted engineering workflows.

PROJECT

Serverless Receipt Processor

AWS S3, Lambda, ECS Fargate, ECR, DynamoDB, SES, CloudWatch, Docker, Python

- Designed a fully event-driven AWS pipeline where S3 uploads trigger Lambda, which orchestrates a Dockerized Python container via ECS Fargate and ECR for structured data extraction.
- Automated end-to-end processing with DynamoDB persistence and SES email notifications, architected to scale to zero compute cost when idle.
- Ensured operational reliability through CloudWatch log analysis and alarm configuration, while minimizing cost via pay-per-invocation Lambda and Fargate pricing.

AI-Assisted DevOps Utility

Python, Docker, AWS Bedrock, GitHub Actions, ECR, Trivy, Git, OIDC

- Automated repository analysis and Dockerfile generation using a Python pipeline integrated with AWS Bedrock and ECR, replacing manual containerization steps in the deployment lifecycle.
- Built a context collector that auto-detects project language, framework, and dependencies, generating structured AI prompts to drive downstream CI/CD automation.
- Implemented a secure Git-based CI/CD pipeline in GitHub Actions using OIDC authentication and Trivy vulnerability scanning at every release stage.

3-Tier AWS Architecture with Terraform

AWS, ALB, EC2, RDS, VPC, NAT, Auto Scaling, IAM, Terraform, Linux

- Deployed and maintained a high-availability 3-tier AWS architecture with modular Terraform across two Availability Zones, using VPC, NAT, ALB, EC2, RDS, and Auto Scaling modules.
- Enforced a security-first traffic model that routed internet traffic through ALB to private EC2 instances and a private RDS subnet, eliminating direct public access to compute and data layers.
- Managed Terraform state remotely and validated infrastructure idempotency through repeated apply cycles, ensuring consistent, repeatable deployments.

SKILLS

- **Cloud (AWS):** EC2, S3, Lambda, VPC, NAT, ALB, RDS, Auto Scaling, IAM, ECS Fargate, ECR, DynamoDB, SES, CloudWatch, Bedrock
- **AI/LLM:** Claude and GitHub Copilot for coding, debugging, and automation; Model Context Protocol (MCP); working knowledge of Claude's model architecture and enterprise deployment patterns
- **Networking & Infrastructure:** VPC design, NAT Gateways, Application Load Balancer, Security Groups, IAM, high-availability multi-AZ deployments
- **Containerization & IaC:** Docker, Docker Compose, Terraform, Kubernetes
- **Version Control & CI/CD:** Git, GitHub, GitHub Actions CI/CD, OIDC-based secure pipelines
- **Linux & Command Line:** Linux (Ubuntu, CentOS) administration, Bash scripting, Python

EDUCATION

- **B.Tech**

Minor in Cloud Computing • IILM University • Greater Noida • 8.02 CGPA

CERTIFICATIONS

Claude Certified Architect – Foundations
Anthropic • 2026

100 Days of Cloud – AWS Certification
KodeKloud • 2026

Cloud Foundations
AWS Academy • 2026

Introduction to Cloud Computing
Infosys Springboard • 2026

Docker for Absolute Beginners Certification
KodeKloud • 2026