

MAHENDRA M.

SENIOR SOFTWARE ENGINEER

 mahendram.contact@gmail.com

 mhdra.dev

 linkedin.com/in/mahendraxm

 Bangalore, India

SUMMARY

Senior software engineer with 5+ years building cloud platforms, automation, and internal tools on AWS and multi-cloud infrastructure. Delivers enterprise migrations, governance controls, and reliable deployment pipelines with Python, Terraform, and GitHub CI/CD. Uses AI to accelerate development, incident response, and platform operations.

SKILLS

CLOUD & IAC

AWS, Terraform, CloudFormation, Multi-cloud, OPA

LANGUAGES

Python

DEVOPS & CI/CD

GitHub Actions, Docker, Bitbucket, GitHub Enterprise

DATABASES

AWS DMS, Database deployment and migration automation

OTHER

Lambda, EventBridge, API Gateway, CloudTrail, Power Automate, AI-assisted development

EDUCATION

2017 — 2020

Bachelor of Computer Applications

IZEE College of Management and Information Science

EXPERIENCE

Senior Software Engineer

2023 — Present

Carelon (Elevance Health)

- Own and maintain Terraform codebase for multi-cloud environments, with a primary focus on database provisioning, configuration, and end-to-end lifecycle management across enterprise workloads.
- Designed and implemented audit automation: reads module metadata from .terraform/modules/modules.json to capture module versions, uses the Terraform HTTP provider to call workspace APIs, and identifies who created each resource—strengthening compliance and traceability for infrastructure changes.
- Built and managed AWS Lambda functions to monitor and alert on database resource creation, improving visibility into unauthorized or unexpected changes across the cloud estate.
- Led organization-wide migration from Bitbucket to GitHub Enterprise by developing Saddle, a full-stack internal application (FastAPI backend, React/Vite frontend, Dockerized deployment) for bulk repository transfers at enterprise scale—migrated 1,000+ repositories and reduced manual migration effort across multiple business units.
- Established end-to-end GitHub Actions workflows after migration to automate Terraform validation, testing, and publishing of reusable modules to the Private Module Registry (PMR), standardizing how infrastructure code is consumed and versioned.
- Modernized post-database deployment processes by replacing fragile shell-script-based execution with a containerized pipeline, improving repeatability, reducing deployment failures, and making rollbacks and environment parity easier to manage.
- Extended OPA (Open Policy Agent) policies with centralized error logging and an OTP-based temporary access mechanism, so policy violations are captured in a single observability location and users receive time-bound tokens to safely remove resources when exceptions are approved.
- Adopted AI-assisted tooling for Terraform development, incident triage, and automation workflows—accelerating infrastructure delivery and reducing time spent on routine troubleshooting and code changes.
- Built a Power Automate workflow that monitors public changelog raw content for Terraform provider version releases across Azure, AWS, MongoDB, and GCP—using HTTP GET to detect updates and publish release alerts into a Microsoft Teams group.

Cloud Engineer

2021 — 2023

Aspire NXT

- Developed and implemented a customized AWS landing zone using Python, CloudFormation, CloudFormation StackSets, and AWS Service Catalog—standardized, repeatable foundation for account provisioning, guardrails, and self-service infrastructure across the organization.
- Automated detection and deletion of IAM policies containing wildcard (*) permissions using Python, Amazon EventBridge, and AWS CloudTrail, reducing the risk of over-privileged access and improving the overall security posture by approximately 20%.
- Designed and built complex data-processing AWS Lambda functions and integrated them with Amazon API Gateway, enabling secure REST API access to backend logic without managing servers.
- Drove infrastructure automation by implementing and maintaining IaC pipelines with Terraform and CloudFormation, ensuring consistent environment configuration, version-controlled changes, and faster, more reliable deployments.
- Implemented AWS PrivateLink between two Virtual Private Clouds (VPCs) to enable secure, private service communication with no traffic traversing the public internet—meeting strict connectivity and data-residency requirements.