

SAMUEL RAJU MAMOOTIL

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PROFESSIONAL SUMMARY

Senior DevOps and Cloud Platform Engineer with 8+ years of experience building scalable, reliable cloud infrastructure and CI/CD platforms across AWS, Azure, and GCP. Proficient in Kubernetes, Docker, Helm, Terraform, CloudFormation, Linux, and scripting, with hands-on expertise in deployment automation, release engineering, cloud migration, DevSecOps, and production operations. Known for record of improving reliability, security, and developer workflows while mentoring teams and modernizing enterprise platforms.

EDUCATION

The University of Texas at Arlington | Arlington, TX
Master of Science in Information Systems

Expected May 2026

Mumbai University | Mumbai, India
Bachelor of Engineering in Computer Engineering

May 2017

TECHNICAL SKILLS

Cloud: AWS, Azure, GCP

DevOps: GitHub Actions, GitLab CI/CD, Azure DevOps, CodePipeline, Ansible

Infrastructure as Code: Terraform, CloudFormation, ARM Templates, Bicep

Containers / Orchestration: Kubernetes, EKS, AKS, ECS, Docker, Helm

Programming/Scripting: Python, Bash, PowerShell, Java, C#, .NET Core, SQL, PHP

Monitoring / Security: Splunk, CloudWatch, Azure Monitor, Log Analytics, SonarQube, IAM, KMS, TLS, vulnerability scanning, policy enforcement

Data Platforms: PostgreSQL, MySQL, DynamoDB, Glue, Athena, Redshift, Databricks

Platform Concepts: Blue/green deployments, canary deployments, incident triage, deployment reliability.

PROFESSIONAL EXPERIENCE

UTA College of Business | Arlington, TX
Student Web Developer (Part-Time)

June 2025 - Present

- Maintained application updates and website content improvements for the College of Business, contributing to consistent functionality, stronger usability, and efficient digital service delivery.
- Triaged, tracked, and resolved incidents across 4 events and communication platforms, improving operational continuity and user experience through timely troubleshooting and support.

WIPRO | Clients: Alight Solutions | Mumbai, India
Tech Lead

February 2024 - April 2025

- Led a 7-engineer cloud platform team to build and improve CI/CD pipelines, reusable infrastructure modules, and deployment standards across enterprise environments.
- Developed Terraform modules and deployment automation that streamlined releases across 10 teams and 4 environments, reducing rollout errors and improving delivery consistency.
- Provisioned and managed AWS services including EKS, ECS, S3, and VPC, while supporting containerized workloads, secure networking, implemented secrets management using AWS Secrets Manager and enforced least-privilege IAM policies to secure credentials across environments.
- Implemented DevSecOps controls through vulnerability scanning, policy-based checks, secure baselines, and automated compliance guardrails, improving governance visibility using Splunk and CloudWatch for monitoring.
- Partnered with development teams and stakeholders to improve deployment reliability and incident response, while maintaining runbooks, SOPs, and playbooks in Confluence to support operational readiness and cost-conscious infrastructure practices.

IBM | Clients: H&M, Siemens, Nokia, Südzucker | Mumbai, India

November 2021 - February 2024

Junior Tech Lead

- Delivered multi-cloud migration and modernization programs across Azure, AWS, and GCP, building governed infrastructure, automation, and reliable cloud deployment patterns for large-scale enterprise workloads.
- Built Terraform infrastructure and CI/CD workflows to accelerate provisioning across 3 environments, enforce cloud governance, and document SOPs, and handover guides in Confluence for operational transition.
- Led H&M's Azure migration of 100+ application servers by implementing landing zones, GitHub Actions pipelines, hardened image standards, and security controls that improved scalability and platform consistency.
- Provisioned AWS infrastructure for Siemens, deployed workloads to EKS, and automated Helm-based releases through private GitHub repositories, GitHub Actions, GitLab CI/CD, Bash, and Python.
- Established secure connectivity and platform guardrails across 3 cloud providers using private endpoints, firewall restrictions, TLS, and release controls, improving resilience, network security.

LTI (now LTIMindtree) | Clients: Parexel, GenRe, Veolia Water | Bengaluru, India

April 2018 - November 2021

Software Engineer

- Developed internal automation tools for AWS and Azure infrastructure delivery, including self-hosted Azure DevOps agent images, image-based provisioning, and Python- and PowerShell-driven workflows.
- Built a PHP-based internal portal for Cloud Practice services that improved access to cloud offerings, standardized service visibility, and supported client engagement workflows.
- Implemented DevSecOps and security controls across Azure environments using SonarQube, Coverity, WhiteSource, TLS 1.2, private endpoints, and policy-driven validation for infrastructure and image security.
- Automated Azure DevOps pipelines with PowerShell, DSC, and ARM templates, and supported Azure Data Factory and ETL implementations for reliable data movement and platform delivery.

NeuroSpeech Technologies | Mumbai, India

August 2017 - April 2018

Junior Developer

- Developed Android applications for 3 clients with MVVM architecture, strengthening code maintainability, modular design, and feature scalability.
- Implemented application features and UI components to reinforce code organization and long-term maintainability.

DATA SCIENCE PROJECTS

ReRhythm | AI-Powered Career Coaching Platform | Arlington, TX

- Built an AI-powered career coaching platform using .NET, AWS Bedrock, Claude-based LLM workflows, and Textract to generate personalized career roadmaps and skill-based learning paths.
- Designed and deployed secure AWS infrastructure using CloudFormation, ECS Fargate, ECR, DynamoDB, VPC endpoints, private subnets, IAM, and KMS, with deployment automation through GitHub Actions and OIDC authentication.
- Implemented secure access, moderation, and safety controls using firewall rules, AWS Rekognition, AWS Comprehend, profanity filtering, and spam detection.

HONORS

Second Runner up - ReRhythm AI Application | AWS Competition, UTA Symposium 2026 Best Team Award - Parexel Project