

SAMUEL MAMOOTIL

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PROFESSIONAL SUMMARY

Senior Cloud and DevOps Engineer and platform specialist with 7+ years across AWS, Azure, and GCP, making infrastructure "invisible" so developers ship faster.
Helps enterprises like H&M and Siemens accelerate by automating routine operations ("the boring stuff") and hardening security ("the scary stuff") with Terraform, CloudFormation, CI/CD, ECS, EKS, and Docker.
Led teams delivering cloud migration and platform engineering at Wipro and IBM; built award-winning AWS solutions and hackathon projects at UTA.

CERTIFICATIONS

Microsoft Certified: Azure Solutions Architect Expert (AZ-303, AZ-304)
Microsoft Certified: Azure DevOps Engineer Expert (AZ-400)
Microsoft Certified: Azure Administrator Associate (AZ-103)

TECHNICAL SKILLS

Cloud Platforms: AWS, Azure, GCP

Infrastructure as Code: Terraform, CloudFormation, GitHub Actions, Azure DevOps, Jenkins, Ansible, GitLab CI/CD, ARM Templates, Bicep

Containers & Orchestration: Docker, EKS, ECS Fargate, Kubernetes, Helm

Security & Networking: IAM, VPC/Private Endpoints, Firewall Rules, TLS, SonarQube

Programming & Data: C#, .NET Core, Python, Bash, PowerShell, SQL, DynamoDB, PostgreSQL, PHP

PROFESSIONAL EXPERIENCE

Student Web Developer (Part-time) | UTA College of Business | Arlington, TX | Jun 2025–Present

- Maintain and update College of Business web applications and site content to ensure high usability, reliability, and seamless platform operations.
- Execute digital content updates under the direction of the Marketing and Communications Director, managing campaign pages and event-related site modifications.
- Selected by faculty as a representative student for a college-wide promotional video campaign, collaborating with marketing to highlight departmental initiatives.
- Troubleshoot and resolve site issues to support the digital infrastructure for major college events and communications.

Tech Lead | WIPRO | Mumbai, India | Feb 2024– Apr 2025 | Clients: Alight Solutions

- Led a 7-engineer team to modernize Alight Solutions' cloud platform, improving deployment speed and predictability with standardized CI/CD and infrastructure automation.
- Created and maintained a shared Terraform module library used across teams, reducing manual setup and guaranteeing consistent, secure infrastructure for new environments.
- Implemented blue-green deployment pipelines for Alight Solutions, removing release-time outages and allowing the team to ship during business hours.
- Provisioned AWS infrastructure across EC2, ECS, EKS, VPC, ALB, NLB, Route 53, S3, EBS, and EFS to support scalable production workloads with Redshift, Glue, and Lambda.
- Hardened cloud security with tightened IAM permissions and real-time CloudWatch monitoring, catching potential issues before business impact.

Junior Tech Lead | IBM | Mumbai, India | Nov 2021–Feb 2024 | Clients: H&M, Siemens, Nokia, südzucker

- Delivered cloud migration and modernization projects across AWS, Azure, and GCP, including landing zones, deployment automation, and secure infrastructure patterns.
- Built Terraform-based cloud infrastructure for H&M, Siemens, Nokia, and Südzucker, enabling scalable provisioning and environment standardization across client platforms.
- Developed GitHub Actions YAML pipelines for infrastructure and application deployments, improving CI/CD automation, consistency, and release efficiency across client engagements.
- Led the migration of around 100+ application servers to Azure for H&M, supporting infrastructure provisioning, deployment automation, and cloud migration execution.
- Advised enterprise clients on migration strategy, including lift-and-shift and re-architecture decisions based on performance, reliability, and security needs.
- Implemented secure network patterns using private endpoints, VPC endpoints, firewall rules, and TLS controls to reduce public exposure of backend services.
- H&M: Supported Azure migration with Terraform, GitHub Actions, and Azure DevOps, including landing zone setup, security scanning, and deployment automation.
- Siemens: Provisioned AWS infrastructure with Terraform, deployed containerized applications to EKS, and automated Helm-based releases with GitHub Actions, GitLab CI\CD and Bash.
- Nokia: Implemented Azure landing zones and Terraform-based deployment workflows to improve migration consistency and environment standardization.
- Südzucker: Supported GCP infrastructure provisioning and deployment automation using Terraform and GitHub Actions.

Software Engineer | Larsen & Toubro Infotech Ltd. (now LTIMindtree) | Bengaluru, India | Apr 2018–Nov 2021 | Clients: Parexel, Regeneron, Veolia Water

- Built internal tools and automated Azure infrastructure delivery using infrastructure as code and DevOps workflows for cloud migration initiatives.
- Developed a PHP-based web portal that served as a live showcase of Cloud Practice service offerings, improving how clients understood and evaluated our cloud capabilities.
- Built a one-click migration automation platform using Terraform and REST APIs to streamline infrastructure provisioning and orchestration.
- Implemented security controls for Azure environments using SonarQube, Coverity, WhiteSource, TLS 1.2, and private endpoint configurations.

- Automated Azure DevOps workflows with PowerShell, DSC, and ARM templates, and supported Azure Data Factory and ETL-related implementations.

Junior Developer | Neurospeech Technologies | Mumbai, India | Aug 2017–Apr 2018

- Developed Android applications using MVVM architecture to improve code maintainability, modular design, and feature scalability.
- Implemented application features and UI components that improved code organization and supported long-term maintainability.

COMPETITION PROJECTS

ReRhythm | AI-Powered Career Coaching Platform Second runner-up, AWS Competition | UTA Symposium 2026

- Built an AI-powered career coach (.NET + AWS Bedrock) that won 2nd runner-up at UTA Symposium by turning resumes into personalized career growth maps.
- Integrated AWS Textract for resume parsing and AWS Bedrock for personalized roadmap generation and skill-based learning paths.
- Designed and deployed secure AWS infrastructure using CloudFormation, ECS Fargate, ECR, DynamoDB, VPC endpoints, private subnets, IAM, and KMS.
- Automated deployments with GitHub Actions and OIDC authentication, and enforced deployment-time firewall controls for secure access.
- Implemented moderation and safety controls using AWS Rekognition, AWS Comprehend, profanity filtering, and spam detection.

EDUCATION

Master of Science in Information Systems, University of Texas at Arlington, Arlington, TX | Expected May 2026 | GPA: 3.7/4.0

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

HONORS

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