**Enumulapally Sumiran**

**| Cloud & DevOps Engineering | Infrastructure Automation | Site Reliability Engineering (SRE) | High Availability & Resilience |**

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**Summary**

Cloud and DevOps Engineer with 3+ years of experience designing, deploying, and optimizing scalable cloud infrastructures. I am proficient in Microsoft Azure, Kubernetes, Terraform, and CI/CD automation, with expertise in cloud security, reliability engineering, and infrastructure as code (IaC). Skilled in performance optimization, cost efficiency, and incident response, ensuring high availability and resilience in cloud environments. Currently pursuing a master’s in information technology at UNC, passionate about bridging traditional IT with cloud-native solutions to drive operational excellence and digital transformation.

# **Technical Skills**

CLOUD PLATFORMS & SERVICES

* Microsoft Azure: Virtual Machines, App Services, SQL Databases, Azure Functions, Storage, VNets
* AWS: EC2, S3, RDS, Lambda

CONTAINER ORCHESTRATION & MANAGEMENT

* Containerization: Docker
* Orchestration: Kubernetes, Azure Kubernetes Service (AKS)

INFRASTRUCTURE AS CODE & AUTOMATION

* IaC Tools: Terraform, ARM Templates, Bicep

CI/CD & VERSION CONTROL

* Version Control: Git, GitHub
* CI/CD Pipelines: GitHub Actions, Azure DevOps

MONITORING & OBSERVABILITY

* Azure Monitor, Log Analytics, Application Insights

NETWORKING & SECURITY

* VPN, IPsec Tunnels, Firewalls (Palo Alto)
* Zero Trust Architecture, RBAC, Azure Active Directory

SCRIPTING & PROGRAMMING

* Scripting: Bash, PowerShell, Python
* Web Development: JavaScript, HTML, C++, C

**Professional Experience**

**Cloud Engineer (Siemens AG)**

*TCS Consultant, Hyderabad Feb 2020 - May 2023*

* Expanded Azure infrastructure footprint by 300%, scaling key resources—including VMs, App Services, SQL Servers, optimizing scalability and performance.
* Designed and implemented an IPsec tunnel between on-premises (Palo Alto) infrastructure and Azure (VPN Gateway), enabling seamless cross-region connectivity and secure data exchange.
* Led the migration of 20+ enterprise applications from on-premises to Azure, reducing latency by 25% and improved system availability to 99.99%.
* Spearheaded a security remediation campaign, identifying and mitigating infra vulnerabilities and aligning with the security best practices and compliance standards, significantly strengthening system security.
* Developed a Custom ticketing tool in Python served 50+ client users to request resources, reducing cloud resource delivery time from 5 to 2days resulting in improved client satisfaction.

**Projects**

**AI-Driven Threat Detection in Zero Trust Architecture *Defender, Sentinel*, *Entra ID***

* Implemented AI-driven threat detection using Microsoft Defender for Cloud and Azure Sentinel.
* Automated real-time alerts and intelligent responses to security threats.
* Integrated RBAC, Privileged Identity Management (PIM), and Entra ID for enhanced access control.

**Certificate Authority Emulation *Flask, python, MongoDB***

* Developed and deployed a Certificate Authority (CA) server using Python and Flask on AWS.
* Designed a public-key infrastructure (PKI) for secure digital certificate issuance.
* Implemented encryption techniques, hashing algorithms, and private/public key authentication.

**Personal Budget App *React, Firebase, D3.js, Node.js***

* Designed and developed a responsive Personal Budget Application to track expenses and provide financial insights using React and Material-UI.
* Integrated D3.js for real-time, interactive visualizations of income and expenses.
* Applied secure authentication with Firebase OAuth 2.0 and multi-factor authentication.

**Certifications**

* **Microsoft Certified: Azure Fundamentals (AZ-900)**

**Education**

* **Master of Science (MS) in Information Technology**

University of North Carolina at Charlotte

Jan 2024 – Dec 2025