

Suman Mandal

Platform Engineer

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Excelled in designing, automating, and optimizing cloud infrastructure using GCP, AWS, and IaC tools. Targeting opportunities to leverage strong background in CI/CD, containerization, and microservices to deliver scalable, secure, and efficient platform solutions while collaborating with cross-functional teams to drive continuous improvement and operational success.



Education



- M.Tech. in Electrical Engineering**
National Institute of Technology, Calicut, Kerala
- B.E. in Electrical Engineering**
Assam Engineering College, Assam



Core Competencies

- Cloud Infrastructure Management
- Infrastructure as Code (IaC)
- Continuous Integration / Continuous Deployment (CI/CD)
- Kubernetes & Containerization
- Automation & Scripting
- Microservices Architecture
- Cloud Security
- Monitoring & Observability
- Cost Optimization & Resource Management
- Database Management
- Version Control & Collaboration
- Agile & Waterfall Methodologies
- Cloud-native Tooling
- Troubleshooting & Debugging



Profile Summary

- **Focused Platform Engineer** with **nearly 2 years** of experience in **GCP** and **AWS**, with hands-on experience in **Terraform, Ansible, Kubernetes**, and **serverless architectures (Cloud Run, Lambda, API Gateway, DynamoDB)**; skilled in designing **scalable, secure, and automated infrastructure** using **Infrastructure as Code (IaC)**.
- Contributed to critical **Healthcare** and **Aviation** projects by **building, automating, and maintaining compliant and high-availability cloud platforms** using **GCP services** such as **GKE, IAM, BigQuery**, and **Cloud Build**, while driving **DevOps best practices**.
- Proficient in the complete **infrastructure lifecycle**, including **provisioning, automation, monitoring, cloud security, and documentation**; implemented **end-to-end CI/CD pipelines** using **Jenkins, GitHub Actions**, and **Cloud Build** to enable **fast, reliable, and repeatable deployments**.
- Strong **collaboration** with **cross-functional Agile teams** to support **mission-critical deployments, optimize cloud resource usage**, and ensure **regulatory compliance** across industries; experienced in delivering **secure and efficient solutions** in **multi-cloud environments**.



Technical Skills

- **Cloud Platforms & Services:** GCP, GCE, Cloud NAT, VPC, Cloud Storage, Cloud SQL, Load-Balancer, Cloud Run, GKE, Logging & Monitoring, Security Best Practices, Billing, IAM and Service Account, BigQuery, integrating BigQuery with Looker Studio
- **Programming Languages:** Python, Bash
- **Infrastructure as Code (IaC) Tools:** Terraform, Ansible
- **Project Management & Methodology:** Agile, Waterfall
- **Database Technologies:** MySQL, NoSQL
- **CI/CD & Automation Tools:** Docker, Cloud Build, Jenkins Pipelines, GKE, GitHub Actions, Kubernetes
- **Version Control & Collaboration Tools:** GitLab, GitHub
- **Development & IDE Tools:** Visual Studio Code



Work Experience

Jul'23 – May'25 | Quantiphi, Bengaluru

As Platform Engineer-1

Key Result Areas:

- Optimized platform infrastructure to maximize availability, scalability, and cost-efficiency while driving performance improvements.
- Designed, refined, and automated CI/CD pipelines to accelerate software delivery and ensure reliable deployments.
- Collaborated with cross-functional teams to align platform development with business objectives and ensure the timely delivery of features.
- Implemented robust security protocols and maintained compliance with industry standards to safeguard platform integrity.
- Monitored and optimized platform performance continuously, enhancing system reliability, reducing downtime, and improving the user experience.

As Platform Engineer Intern

Technologies Used: API Gateway, Lambda, DynamoDB, CloudWatch, Pinpoint

Highlights:

- Contributed to the development of a highly scalable and cost-efficient cloud architecture for an AgriTech mobile application using AWS serverless technologies.
- Collaborated with various teams to optimize the cloud infrastructure, ensuring smooth deployment and enhanced system performance.

Certifications



Google Cloud Certified – Associate Cloud Engineer | 2024



Snowflake SnowPro Core Certification | 2024



HashiCorp Certified: Terraform Associate (003) | 2024



Achievements



Honored with the Annual Avengers Award (H1 2024) as the Best Contributing Team Member, recognizing outstanding performance and significant impact on project success



PERSONAL DETAILS

Languages Known: English, Hindi

Address: Bengaluru, India

Projects Under Quantiphi:

Bayer - Calantic PSS 2025 CCR1

Overview: AI-Powered Cloud Platform for Medical Image Diagnostics

Cloud Technology: Google Cloud Platform (GCP)

Technologies Used: Google Cloud Platform (GCP), Terraform, Docker, Kubernetes, Google Cloud Deployment Manager, Google Cloud Operations Suite

Responsibilities:

- ➊ Supported the development and deployment of an AI-assisted healthcare platform that analyzes medical DICOM images for automated diagnostics and secure results delivery.
- ➋ Led the implementation of Infrastructure as Code (IaC) using Terraform for the seamless provisioning of secure and scalable cloud infrastructure.
- ➌ Collaborated closely with cross-functional teams to enhance deployment pipelines, troubleshoot platform-level issues, and deliver robust infrastructure solutions that meet Healthcare industry regulations.
- ➍ Successfully ensured compliance with healthcare standards while maintaining a highly scalable and secure infrastructure, which resulted in enhanced platform reliability and seamless deployments.

Qatar Airways - PLZ

Overview: Established a Google Cloud Landing Zone for Fast Adoption

Cloud Technology: Google Cloud Platform (GCP)

Technologies Used: Google Cloud Platform (GCP), Ansible, Ansible Tower, Terraform, Git, Jenkins, GitLab CI, Confluence, Markdown

Responsibilities:

- ➊ Designed and implemented a Google Cloud landing zone to accelerate Qatar Airways' transition to the cloud.
- ➋ Automated NVA configurations using Ansible and optimized deployment processes with Ansible Tower, ensuring efficient and consistent environment setups.
- ➌ Utilized Terraform to provision cloud infrastructure and Git-based workflow for streamlined collaboration and change management.
- ➍ Authored detailed documentation to guide cloud adoption and ensure ongoing operational success.
- ➎ Reduced cloud adoption time through the automation of infrastructure setups and streamlined workflow, expediting Qatar Airways' overall cloud transition.

TEX ALlocation: Liverpool Mexico Phase 1 - Chatbot Development

Overview: AI-Driven Virtual Agent to Enhance Customer Interaction

Role: Database Management

Technologies Used: Google Cloud Platform (GCP), PostgreSQL, DBeaver, SQL, Python, RESTful APIs, Google Cloud Logging, Google Cloud Monitoring

Responsibilities:

- ➊ Developed and implemented a pilot chatbot designed to address frequently asked questions and enhance the customer experience for a retail project.

Set up a PostgreSQL database on Google Cloud and designed efficient schema structures to ensure quick Cloud

Pinpoint, AWS CloudFormation

Responsibilities:

- ➋ Designed and implemented a cost-efficient, serverless cloud architecture to support an agritech mobile app, focusing on performance and scalability.
- ➌ Utilized AWS services such as Lambda, API Gateway, and DynamoDB to build a robust back-end, while CloudWatch and Pinpoint were leveraged for monitoring and messaging.
- ➍ Optimized serverless resources to ensure the infrastructure remained cost-effective while supporting high levels of user traffic and data processing.