

Gopi Krishnan P

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PROFESSIONAL SUMMARY

Cloud Infrastructure & DevOps Engineer with hands-on experience in AWS cloud architecture, infrastructure automation, and production operations. Skilled in designing and managing highly available AWS environments, automating infrastructure with Terraform and Ansible, deploying containerized applications using Docker and Kubernetes, and building CI/CD pipelines with Jenkins and GitHub Actions. Experienced in cloud security, monitoring, incident management, troubleshooting, and production support.

SKILLS

Cloud Platforms: AWS (EC2, S3, Lambda, VPC, RDS, CloudWatch, Route 53, Auto Scaling, IAM, API Gateway, ELB), **Azure** (Virtual Machines, App Service, Storage Accounts, Entra ID)

CI/CD & Infrastructure as Code: Git, GitHub, GitHub Actions, Jenkins, Terraform, Ansible

Containerization & Orchestration: Docker, Kubernetes, Amazon EKS

Programming & Backend technologies: Python, Flask, REST APIs

Monitoring & Observability: Prometheus, Grafana, AWS CloudWatch, Log Monitoring, Alerting

Databases: MySQL, Oracle SQL

Operating Systems & Networking: UNIX/Linux, Windows Server, Bash Scripting, TCP/IP, DNS, Routing, SSL/TLS, Load Balancing, VPC Networking

Security & Vulnerability Assessment: IAM, Security Groups, Encryption, Access Control, Firewalls, Burp Suite, Nmap, Wireshark

WORK EXPERIENCE

Karuvian Innovatives, Cloud Infrastructure Engineer 01/2025 – Present | Coimbatore, Tamil Nadu

- Architected and deployed multi-AZ AWS infrastructure (VPC, EC2, RDS, ALB, Auto Scaling) supporting production workloads across development, staging, and production environments with high availability and scalability.
- Engineered MQTT-based IoT solutions on AWS, implementing SSL/TLS encryption, API integrations, and data pipelines for smart metering applications and real-time device communication.
- Orchestrated containerized applications using Docker and Kubernetes, implementing pod auto-scaling and load balancing, reducing deployment time by approximately 50%.
- Automated infrastructure provisioning with Terraform and CI/CD pipelines using Jenkins, supporting Linux-based AWS environments across development, staging, and production.
- Implemented cloud security controls using AWS IAM, Security Groups, VPC segmentation, encryption, and vulnerability assessment tools, including Burp Suite, Nmap, and Wireshark.
- Established monitoring, logging, and alerting using AWS CloudWatch, Prometheus, and Grafana, supporting 5+ production applications and enabling proactive incident detection, troubleshooting, root cause analysis, and production support.

PROJECTS

KooraQ - On-Demand Service Platform

- Architected highly available AWS infrastructure supporting high-concurrency workloads with database reliability
- Containerized applications with Docker and deployed on Kubernetes, improving scalability for multiple concurrent requests
- Implemented VPC networking, IAM, Security Groups, and Application Load Balancers to secure and scale application traffic.
- Integrated monitoring with Prometheus and Grafana, reducing incident response time by 30%
- Designed and implemented highly available and fault-tolerant cloud infrastructure using Auto Scaling and Load Balancers.

Intelligent Seed Prediction and Recommendation System using Machine Learning

- Developed a machine learning-based recommendation system trained on 20+ crop types using soil and environmental data
- Designed and deployed a full-stack application on Azure (VM, VNet, Blob), supporting real-time predictions for 100+ users (PoC)
- Designed structured datasets and implemented data preprocessing, validation, transformation, and ingestion workflows for ML.
- Processed and analyzed structured agricultural datasets using Python and SQL to generate datasets and support decision-making.

ACHIEVEMENTS

HackHarvard Finalist, Harvard University	10/2024 Massachusetts, America
HackMIT Hackathon Finalist, Massachusetts Institute of Technology	08/2024 Massachusetts, America
IIT-Madras Think Create Engineer Winners, PALS, IIT-Madras	12/2023 IIT-Madras, Chennai
IIIT-Kottayam Summit 2023 Project contest Winners, CSE, IIIT-Kottayam	06/2023 IIIT-Kottayam, Kerala
IIT-Bombay Robotics Competition Top Performer, e-Yantra, IIT-Bombay	05/2023 IIT-Bombay, Mumbai

EDUCATION

Bachelor of Engineering - Electronics and Communication Engineering, 08/2021 – 04/2025 | Coimbatore, Tamil Nadu
KIT-KalaighnarKarunanidhi Institute of Technology