

# ROSHAN J

Bangalore, India

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## SUMMARY

Cloud Engineer specialized in AWS infrastructure and Linux administration. Experienced in designing scalable cloud architectures, automating workflows, and managing CI/CD pipelines. Proficient in monitoring tools like Grafana and Prometheus, with a strong foundation in patch management, incident resolution, and deploying high-availability systems.

## EDUCATION

### B.Tech in Artificial Intelligence and Data Science

Karunya University

Coimbatore, 2020 – 2024

### Higher Secondary Education

Holy Spirit Matric Hr. Sec. School

Sivaganga, 2019 – 2020

## SKILLS

- **Cloud Technologies:** AWS (Compute, Storage, Database, Networking, Monitoring & Security Services), Git, Linux, Grafana, Prometheus.
- **Web Development:** ReactJS, Node.js.
- **Programming Languages:** Python, JavaScript.
- **Data Science Tools:** Pandas, Scikit-learn, TensorFlow.
- **Databases:** SQL, MongoDB.

## WORK EXPERIENCE

### Axxess.io

Cloud Engineer

Apr 2025 – Present

Bengaluru, India

- Managed Linux and AWS cloud infrastructure, ensuring high availability and system security.
- Configured and maintained Managed Services Dashboards using Grafana and Prometheus for real-time monitoring.
- Implemented automation scripts for AWS resources and Linux administrative tasks to streamline operations.
- Executed systematic patch management and handled incident management to minimize downtime.
- Orchestrated code deployments and managed CI/CD pipeline executions for efficient software delivery.

## INTERNSHIP EXPERIENCE

### NTTF

Full-Stack Development Trainee

Nov 2024 – Feb 2025

- Developed and deployed a MERN stack project on AWS, utilizing EC2, S3, and Lambda for serverless architecture.
- Engineered full-stack solutions using HTML, CSS, JavaScript, TypeScript, React, Node.js, and MongoDB.
- Attained AWS Cloud Practitioner certification, validating expertise in cloud infrastructure.

### CISCO

Programming Virtual Intern

May 2022 – Jun 2022

- Developed modular Python scripts implementing variables, loops, functions, and standard error handling procedures.
- Executed rigorous testing and debugging of code to ensure stability across standard Python libraries.

- Analyzed business datasets using predictive analytics to derive actionable insights for real-world scenarios.
- Constructed and evaluated Machine Learning models to optimize data analysis workflows.

## PROJECTS

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### **Scalable 3-Tier Web Infrastructure on AWS** | *AWS, EC2, RDS, EFS, Auto Scaling*

- Designed a secure 3-tier VPC architecture with segmented public, private, and isolated subnets across multiple AZs.
- Deployed a highly available WordPress application integrating RDS (MySQL) and EFS for persistent shared storage.
- Configured Auto Scaling Groups (ASG) behind a Classic Load Balancer with ACM SSL certificates for secure traffic.
- Implemented custom CloudWatch metrics for target tracking scaling policies to optimize resource utilization.

### **Multi-Layer AWS Load Balancer Architecture** | *AWS, NLB, ALB, EC2, Auto Scaling*




- Engineered a resilient multi-layer architecture using an internet-facing NLB for static IP support routed to an internal ALB.
- Implemented path-based routing rules on ALB to direct traffic to distinct Auto Scaling Groups (ASGs) for separate applications.
- Achieved high availability by deploying resources across multiple Availability Zones (AZs) using Golden AMIs for consistency.
- Enhanced security by isolating backend instances in private subnets, restricting ingress traffic solely to the internal ALB.

### **MERN Full-Stack Bikepooling Platform** | *React, Node.js, AWS*

- Architected a bikepooling web application using the MERN stack (MongoDB, Express, React, Node).
- Integrated JWT-based secure authentication and implemented role-based access control (RBAC) for users.
- Deployed the application on AWS EC2, utilizing shell scripting for automated environment setup.

## CERTIFICATIONS

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- **AWS Certified Cloud Practitioner** – Amazon Web Services 
- **Python for Data Science** – NPTEL 
- **Neural Networks and Deep Learning** – Coursera 
- **Data Mining** – NPTEL 