

Mohammed Shoaib. Makandar

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Experience

Junior Cloud Engineer Intern | Eyesec Cybersecurity Solutions Pvt. Ltd | Belgavi

March 2023 – June 2023

- Problem:** For a customer in the Farm House Goods industry, a scalable cloud infrastructure was required to support SaaS apps and improve online sales.
- Action:** After examining more than fifty use cases with the Team lead, a customised cloud architecture was created to streamline sales procedures.
- Results:** Implemented a strong SaaS infrastructure that raised revenue by 40% in the first quarter after deployment and sales by 6.33% in six months.
- Day to Day tasks:** Set up and monitoring AWS services for SaaS deployment, such as load balancers, EC2, ECS, and S3.

Internship Trainee | BSNL | Belgavi

September 2022 – October 2022

- Issue:** It was necessary to maintain a dependable networking backbone and streamlining sales operations.
- Action:** Participated in Networking Server management and received training in fundamental network systems, such as switches, routers, and FTTH. Assisted in putting in place a CRM system to cut down on manual labour in sales processes.
- Outcome:** A 5% increase in operational efficiency due to a 10% reduction in administrative workload and improved sales team focus.

Selected Projects

City Wellness – Smart Reporting and Monitoring System

[[Link](#)]

- Issue:** There were delays and unsanitary conditions as a result of the lack of real-time visibility, prioritisation, and citizen engagement in urban waste collection.
- Take action:** Created a full-stack web application that increased citizen participation by 70% by enabling real-time reporting of waste issues with voice, image, and GPS support.
 - Created and implemented a TensorFlow (CNN)-based AI-powered waste classifier that identified organic, metal, and glass waste types with 92% accuracy.
 - Flask backend was integrated to provide real-time machine learning predictions, and it was linked to a Node.js API layer to facilitate smooth front-end communication.
 - 65% more efficient report management was achieved by implementing a role-based admin dashboard with Firebase Auth.
 - 40% waste collection route planning optimisation was achieved by enabling predictive analytics with MongoDB historical data.
 - Improved user trust and transparency by introducing complaint escalation and feedback modules with before/after image comparison.
- As a result, automated routing and prioritisation decreased waste overflow incidents by 55% and eliminated the need for manual monitoring by 60%. The platform's near real-time response capabilities allowed it to process over 250 reports during the testing phase.

DevSecOps Pipeline for Netflix Clone Deployment on Kubernetes

- Issue:** Security validation and consistency were lacking in manual deployments.
- Action:** Using Jenkins, I designed and automated a CI/CD pipeline that integrated Trivy and SonarQube for both static and container security scanning.
 - Using Helm and ArgoCD, containerised services were deployed to AWS EKS with 99.9% uptime.
 - Reduce incident response time by 50% by implementing monitoring using Prometheus and Grafana.
 - To standardise releases, Docker Hub pushes and automated Docker image builds are used.
 - Enhanced failure visibility by 30% by implementing SMTP alerts for failure detection.
- Outcome:** 60% shorter deployment times and 20% lower operating costs due to optimised AWS infrastructure.

Technical, Management & Leadership Skills

Programming Languages: Java, Python, C

Cloud Platforms & Infrastructure: Amazon Web Services (AWS: EC2, S3), Microsoft Azure, Terraform.

DevOps & Automation: Docker, Kubernetes, Jenkins, Git, GitHub, CI/CD pipelines, Infrastructure as Code (IaC), Configuration Management, Automation Scripting.

Management: Operational Strategy, Strategic Thinking, Innovation & Creativity, Change Management, Delegation, Time Management, Decision Making, Problem Solving, Effective Communication, Leadership, client communication, stakeholder coordination

Monitoring & Logging: Prometheus, Grafana

Databases: SQL, MongoDB, Relational Databases, DBMS

Networking & Security: Computer Networks, Load Balancers, IAM Roles, Networking Server Management, Cloud Security Principles

Software Engineering Concepts: Object-Oriented Programming (OOP), Agile & Scrum Methodologies, Microservices.

Certification

Diploma in Office Automation | [Oracle Cloud Success Navigator Essentials](#) | [Oracle Cloud CX Certified Foundations Associate](#) | [Oracle Cloud ERP Foundations Certified Associate](#) | [Oracle Cloud HCM Certified Foundations Associate](#) | [Oracle Cloud SCM Certified Foundations Associate](#)

Education

- Bachelor of **Computer Application** | **CGPA: 8.37/10** | Rani Channamma University, Karnataka
- Diploma in **Computer Science and Engineering** | **CGPA: 9.52/10** | Jain Polytechnic, Karnataka

Volunteer and Leader Experience

Placement Coordinator Organized company drives, peer resume reviews, and mock interviews. | **Event Organizer** Managed technical and cultural events with smooth logistics and high participation. | **Cybersecurity Workshop Volunteer** Supported Secuneus Tech in hands-on sessions for 100+ students.