

Roop Sai Surampudi

Lead Engineer

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EXPERIENCE

Lead Engineer

Axiora Global Solutions Private Limited

Mar 2026 – Present

Hyderabad, India

- Architected and managed AWS infrastructure for development, staging, and production environments for AxioraPulse, an AI-powered decision intelligence platform for startup idea validation.
- Designed and deployed scalable backend services using FastAPI and containerized applications using Docker, ECS Fargate, and ECR for reliable cloud-native deployments.
- Built and maintained CI/CD pipelines using GitHub Actions for automated ECS deployments with zero-downtime rollout strategies.
- Integrated AWS services including S3, ECS, Aurora PostgreSQL, CloudWatch, Secrets Manager, and IAM for secure and scalable production systems.
- Solved complex infrastructure challenges related to container orchestration, VPC networking, database connectivity, and multi-environment configuration management.
- Technologies: Python, FastAPI, ReactJS, AWS ECS, Fargate, Docker, ECR, S3, Aurora PostgreSQL, GitHub Actions, CloudWatch

Associate Software Engineer

Softic Digitech Private Limited

Sept 2023 – Nov 2025

Hyderabad, India

- Contributed to the development of a high-performance electronic trading platform for institutional clients, enabling real-time order placement and trade execution.
- Designed and implemented low-latency backend services in Java for order management, pricing updates, and trade lifecycle processing.
- Implemented validation and risk-check mechanisms before trade execution to ensure transactional integrity and compliance.
- Designed relational database schemas and optimized SQL queries to maintain ACID consistency and fast trade retrieval.
- Technologies: Java 8+, Spring Boot, REST APIs, PostgreSQL, JUnit, Mockito, Maven, Git

Associate Software Engineer

Infor

Jun 2022 – Mar 2023

Linköping, Sweden

- Maintained and enhanced the backend codebase of the Infor Rhythm ECommerce PIM System.
- Designed and implemented the Bulk Import and Bulk Export features, enabling seamless data import/export via CSV and Excel files, streamlining workflows for users.
- Developed RESTful APIs to support backend operations within the Infor Rhythm PIM system.
- Collaborated with team members and Development Analysts to address requirements and design new features.
- Technologies: Java, Spring, GitLab, AWS Kinesis, DynamoDB, PostgreSQL

Junior Java Developer

Ericsson

Sep 2021 – Mar 2022

Karlskrona, Sweden

- Refactored legacy codebases of Ericsson Dynamic Activation to enhance maintainability and performance.
- Contributed to the development of a command-line tool to facilitate the migration of sensitive data stored in the Cassandra database of EDA 1.0 (Monolithic architecture) to the Cassandra database of EDA 2.0 (Microservice architecture), ensuring secure data transport.
- Resolved customer escalated issues by analyzing and addressing system errors efficiently.
- Technologies: Java, Scala, Mockito, Cassandra, Gerrit, Docker, Kubernetes, Helm

Thesis Intern

Ericsson

Jan 2020 – Jan 2021

Karlskrona, Sweden

- Developed a Random Compaction Strategy for Apache Cassandra NoSQL database, enhancing its performance and efficiency.
- Deployed a testing cluster on IBM Cloud Gen2 VPC using the automation tool Ansible, streamlining the setup process.
- Collected performance metrics using Prometheus and visualized them using Grafana to evaluate compaction strategies.
- Technologies: Java, Cassandra, Prometheus, Grafana, IBM Cloud, Ansible

Freelancer

RISE

Jan 2019 – Jan 2020

Stockholm, Sweden

- Developed a web interface for a crowdsourcing-based subjective quality assessment system for adaptive video streaming, focusing on Quality of Experience (QoE).
- Engineered the interface to enable users to participate in quality assessments, facilitating real-time feedback collection.
- Technologies: HTML, PHP, Javascript

SKILLS

- **Languages:** Java, Javascript, Python, Scala, SQL, HTML, PHP
- **Frameworks & Libraries:** Spring Boot, FastAPI, ReactJS, REST APIs, JUnit, Mockito
- **Databases & Storage:** PostgreSQL, DynamoDB, Apache Cassandra, Aurora PostgreSQL, AWS S3
- **Cloud & DevOps:** AWS (ECS, Fargate, ECR, Kinesis, CloudWatch, Secrets Manager, IAM), IBM Cloud, Docker, Kubernetes, Helm, Ansible, GitHub Actions, GitLab CI/CD, Maven, Git, Gerrit
- **Monitoring & Tools:** Prometheus, Grafana

CERTIFICATIONS

- **Microsoft Azure Fundamentals** | [Credential Link](#)
- **Apache Cassandra Developer Associate** (DataStax) | [Credential Link](#)
- **Apache Cassandra Administrator Associate** (DataStax) | [Credential Link](#)

EDUCATION

Masters in Telecommunication Systems

Blekinge Tekniska Högskola

Feb 2018 – Jan 2021

Karlskrona, Sweden

Bachelors in Electronics and Communication Engineering

JNTU

Aug 2014 – Dec 2017

Kakinada, India