

OMKAR NAGANASURA

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[GitHub](#) | [LeetCode](#) | [Linkedin](#) | [Portfolio](#)

EDUCATION

M S Ramaiah Institute Technology

Computer science B.E..

CGPA: 8.67/10

karnataka, India

July 2021 - May 2025

EXPERIENCE

Digital Blanket | Software Engineer I

Bengluru, India | April 2025 - Present

- Built containerized CDC pipeline with Debezium and Kafka on Docker processing 100K+ events/hour, supporting 500+ users with 99.5% uptime
- Orchestrated multi-database CDC infrastructure deploying Debezium connectors for MySQL, PostgreSQL, and MongoDB in Docker containers with 99.9% reliability, reducing data latency from 24 hours to 5 seconds
- Implemented containerized microservices architecture using Docker Compose for Kafka cluster, Debezium Connect, and Zookeeper, enabling rapid deployment, horizontal scaling, and environment consistency
- Delivered enterprise reporting solution replacing legacy systems with Apache Superset self-service BI platform, configured for high-concurrency supporting 50+ users with advanced visualizations
- Architected configuration-driven API gateway using Node.js/Express.js with adapter pattern, enabling dynamic backend service integration via JSON configs, reducing integration time by 80%
- Developed multi-step orchestration engine in Node.js with sequential API workflows, in-memory caching, and dynamic payload construction, improving pipeline efficiency by 65%

SKILLS

Programming Languages: C/C++, Java, Python, HTML/CSS, Javascript
Libraries/Frameworks: React, Django, Spring Boot, Langchain, streamlit
Tools / Platforms: Docker, VScode, Git, Kubernetes, Azure
Databases: MySQL, MongoDB, SQLite, kafka, debezium

PROJECTS / OPEN-SOURCE

Deepfake and Phishing detection using VLMs and Blockchain

Python, Reactjs, VLMs, FastAPI

- Developed a multimodal detection system combining text, image, and audio for phishing analysis.
- Utilized **BERT**, **ViT**, and **Wav2Vec2** models to identify fake content across modalities.
- Built FastAPI backend with MongoDB storage, integrating secure JWT authentication and role access.
- Deployed real-time detection dashboard using React with dynamic data visualization and alerts.

Langchain Q&A Tool using LLMs | [Link](#)

Langchain, Python, HTML, CSS, open source LLMs

- Developed a Dash-based web application for advanced text analysis using **NLP** and AI-powered tools.
- Implemented Named Entity Recognition (NER) and sentiment analysis for detailed text-based insights.
- Enabled auto text processing from URLs and PDFs with seamless multilingual translation support.
- Integrated AI-driven text summarization and text-to-speech (audio response) for enhanced accessibility.

CERTIFICATIONS

- Microsoft Certified Azure AI Fundamentals - **Microsoft**
- Docker Training Course for the Absolute Beginner - **Microsoft**
- DataAnalyticsJobSimulation - **Deloitte**

HONORS & AWARDS

- Google Agentic AI Hackathon Finalist