

CHANDRA KISHORE REDDY GURRAM

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- ▶ Software Engineer with 2+ years of experience building scalable systems and intelligent backend services.
- ▶ Skilled in RAG, LangChain, OpenAI, and vector DBs, with hands-on work in document parsing, chunking, and semantic retrieval.
- ▶ Proven track record delivering data-driven features, CI/CD automation, and cloud-native deployments (AWS, Docker, Kubernetes).

EDUCATION

Arizona State University, Tempe, AZ, USA | Masters in Computer Science, (GPA: 4.0/4.0)
VIT | Integrated Masters in Software Engineering, (GPA: 8.4/10.0)

Aug 2023 – May 2025
Aug 2017 – May 2022

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL

Frameworks: Django, Flask, Spring Boot, Maven, Hibernate, JUnit, TestNG, React.js, Node.js, Vue.js, Angular.js, Express.js, D3.js, Next.js, Axios, Windows Forms, ADO.NET, ASP.NET, Bootstrap, Robot Framework

Tools And Technologies: AWS SQS, AWS Lambda, AWS ECR, AWS S3, MySQL, PostgreSQL, MongoDB, Hadoop, Spark, Neo4j, Kafka, Kibana, Docker, Git, Kubernetes, Jenkins, JIRA, Artifactory, Selenium

Software Development Practices & Protocols: CI/CD, SDLC, OOPS, REST, RPC, GraphQL, NETCONF, Agile, Distributed Systems, Software Design Patterns, Microservices Architecture, Code Reviews

Certification: [AWS Certified Solutions Architect Associate](#)

PROFESSIONAL EXPERIENCE

Software Engineer

Karibu.ai

June 2025 – Present
San Francisco, CA, USA

- ▶ Developed the **AI agent** behind Karibu, a **context-aware onboarding assistant** that guides healthcare professionals in onboarding.
- ▶ Designed and implemented a **RAG system using LangChain and LLMs**, integrating semantic search into production.
- ▶ Built **web pages with TypeScript** (Next.js, React) to deliver customer-facing ML-driven features and seamless onboarding workflows.

Software Development Engineer

Nokia Networks and Solutions

May 2022 – July 2023
Chennai, India

- ▶ Architected **RESTful APIs** with Flask and MongoDB, resolving NETCONF caching latency for real-time config access.
- ▶ Developed CI/CD-integrated framework for config file **backward compatibility, automating validation** to enable higher-quality releases.
- ▶ **Implemented lazy loading** for topology data in React, restructuring payload flow to eliminate UI timeouts and deliver instant graph views.
- ▶ **Improved CI/CD workflows** by fixing test failures, identifying root causes, and eliminating recurring issues.
- ▶ Built config versioning & monitoring with **Node.js (Express.js, TypeScript) and Spring Boot**, backed by PostgreSQL.
- ▶ Developed complete backend architecture including database schema, **RESTful APIs**, validation pipeline, and live dashboard integration for end-to-end **configuration lifecycle management**.

Associate Software Engineer

Nokia Networks and Solutions

Sep 2021 – May 2022
Chennai, India

- ▶ Automated Controller setup by **scripting Kubernetes pod provisioning** in Python, resolving inconsistency and saving manual hours.
- ▶ Implemented a test **execution framework, enabling focused local automation runs**, addressing feedback loops and improved team efficiency.
- ▶ Built a **Python artifact validation workflow** to parse release notes and flag broken links, addressing error-prone manual checks in releases.

ACADEMIC PROJECTS

Rich Text Doc (PDF) RAG for Arxiv Papers (Apache Kafka, RocksDB, Faiss, S3, Lambda, OpenAI)

- ▶ Constructed an **RAG pipeline for arXiv papers** using S3, Lambda, RocksDB, FAISS, and Kafka to streamline LLM embedding retrieval.
- ▶ Enabled rapid and scalable document search by integrating FAISS indexing with Kafka-based pipelines, elevating query performance.

Data Engineering and Analytics (Apache Spark, SparkSQL, Scala, GeoSpark, Neo4j, Kubernetes, Docker, Kafka, Neo4j)

- ▶ Orchestrated a streaming **data pipeline with Kubernetes, Kafka, and Neo4j** to power real-time analytics for high-volume Reddit datasets.
- ▶ Accelerated analytics by leveraging pg bulkload, SparkSQL spatial queries, and PostgreSQL partitioning, ensuring rapid data accessibility.

Exploratory Data Analysis (React, D3.js, React.js, JavaScript, Node.js)

- ▶ Engineered a city analytics dashboard via **React and D3.js**, delivering real-time, SQL-driven visualizations through robust **REST APIs**.
- ▶ Enhanced user insights with interactive UI components and Node.js back end, supporting live data exploration and dynamic analytics.

Generative AI: ASU's Text-To-Video Model

- ▶ Curated large-scale video datasets (Panda70M, OpenVid, VidGen) to fuel ASU's text-to-video generation pipeline for academic research.
- ▶ Benchmarked LLaVA, QWEN, ORYX using EMScore, SPICE, BLEU, iterating prompt designs to elevate caption accuracy and output.

Multi-Tier Elastic Web Application (AWS, EC2, S3, SQS, RDS, ELB, CloudWatch, AWS Lambda)

- ▶ Delivered a scalable face recognition application on AWS with Spring Boot, integrating EC2, S3, RDS, SQS, and elastic load balancing.
- ▶ Automated auto-scaling and zero-downtime video processing through SQS, CloudWatch, AWS Lambda, and Spring Cloud orchestration.