

# 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.