

CHANDRA KISHORE REDDY GURRAM

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Education

Masters in Computer Science, Arizona State University, Tempe, AZ, USA (**Grade: 4.0/4.0**) (August 2023 - May 2025)
Integrated Masters in Software Engineering, VIT, Vellore, India (**GPA 8.46/10.00**) (August 2017 - May 2022)

Professional Experience

Software Development Engineer

August 2022 – July 2023

Nokia Networks and Solutions

Chennai, Tamil Nadu, India

- Designed a **RESTful API** using **Spring Boot** to cache NETCONF responses in **MongoDB**, reducing southbound traffic by 80% and enabling **millisecond-latency** config access.
- Engineered a **backward compatibility validation framework** for configuration files, integrating it into **CI/CD pipelines** to enhance code quality and reduce manual validation time by 70%.
- Designed and implemented **REST APIs** for scalable topology graph visualization with rule-based **custom icon support** and graph traversal logic to **identify impacted nodes, enhancing personalization and fault analysis**.
- Optimized topology graph visualization with lazy loading, **reducing payload size by 80%** and **improving load times from 30s to less than 1s**, eliminating timeouts and improving user experience.
- Led the investigation and resolution of **100+ high-priority and critical bugs**, reducing system downtime by 50% and improving application performance.
- **Optimized CI/CD workflows** by monitoring multiple pipelines, performing **root cause analysis**, resolving automation test failures, and collaborating with cross-functional teams, **reducing recurring pipeline failures by 100%**.
- Developed **10+ automation test cases** using **Robot Framework** to validate the creation, deletion, and modification of intent stacks, ensuring proper propagation of changes across dependent intents and enhancing test efficiency.

Software Development Engineer, Intern

August 2021 – July 2022

Nokia Networks and Solutions

Chennai, Tamil Nadu, India

- Authored a **Python script** to automate Access Controller setup by **provisioning Kubernetes pods** and environment configuration, **reducing setup time by 70%** and **minimizing configuration errors**.
- Engineered a **lightweight test execution framework** that empowers developers to run targeted automation tests locally, **optimizing resource utilization and accelerating feedback loops by 50%**.
- Automated the artifact validation and download workflow with **Python**, parsing customer release notes to identify and flag broken links, **eliminating manual errors and enhancing release reliability**.

Projects

Data Engineering & Analytics

(**Apache Spark, SparkSQL, Scala, GeoSpark, Neo4j**)

- Built a scalable data pipeline with **Kubernetes, Kafka**, and **Neo4j** for streaming ingestion and real-time analytics.
- Optimized Reddit data loading via **pg_bulkload**, added spatial queries in **SparkSQL**, and used **PostgreSQL** partitioning for faster analytics.

Rich Text Doc (PDF) RAG for Arxiv Papers

(**Apache Kafka, RocksDB, Faiss, S3, Lambda, OpenAI**)

- Built an RAG pipeline for **arXiv** papers using **S3, Lambda, RocksDB, FAISS**, and **Kafka** to store and retrieve embeddings for LLM queries.

Exploratory Data Analysis

(**React, D3.js, React.js, JavaScript, Node.js**)

- Created an interactive city analytics dashboard with **React, D3.js**, backed by **REST APIs** and **SQL**-driven real-time visualizations.

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

- Curated large datasets (**Panda70M, OpenVid, VidGen**) for ASU's text-to-video pipeline.
- Benchmarked **LLaVA, QWEN**, and **ORYX** with EMSCORE, SPICE, and BLEU, refining prompts to improve caption quality.

Multi-Tier Elastic Web Application

(**AWS, EC2, S3, SQS, RDS, ELB, CloudWatch, AWS Lambda**)

- Developed a multi-tier **Spring Boot** app on AWS (**EC2, S3, RDS, SQS**) for scalable face recognition.
- Implemented **SQS**-based auto-scaling with **CloudWatch** and **Spring Cloud**, plus **AWS Lambda** functions for zero-downtime video processing.

Technical Skills

Languages: Java, JavaScript, Python, SQL, C#, C, C++, Matlab, HTML, CSS, Bash

Frameworks: Spring Boot, Spring Cloud, Maven, Hibernate, JUnit, TestNG, React.js, Node.js, Vue.js, Angular.js, Express.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.

Certifications: AWS Certified Solutions Architect Associate. | [Validate](#)