CHANDRA KISHORE REDDY GURRAM

(Open to Relocation) **J** 623-286-7971 **■** gurramchandrakishore@gmail.com **in** <u>LinkedIn</u> <u>Q Github</u>

Education

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

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

Professional Experience

Software Development Engineer

Nokia Networks and Solutions Chennai, To

August 2022 – July 2023 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%.
- Led the investigation and resolution of **100+ high-priority and critical bugs**, reducing system downtime by 50% and improving application performance.
- Developed and automated 10+ 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.
- 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%.

Software Development Engineer, Intern

August 2021 – July 2022

Nokia Networks and Solutions

Chennai, Tamil Nadu, India

- Designed and implemented a lightweight test execution framework, enabling developers to run selective automation tests locally, reducing resource utilization and accelerating feedback loops by 50%.
- Automated artifact validation and download workflow using Python by parsing customer release notes to identify and flag broken links, reducing manual errors and improving release reliability.
- Developed a Python script to streamline Access Controller setup by provisioning kubernetes pods and preparing the environment, reducing setup time by 70% and minimizing configuration errors for enhanced efficiency and reliability.

Projects

Data Engineering & Analytics

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

- Designed and implemented a highly scalable and available data processing pipeline using Kubernetes, Kafka, and Neo4j, integrating document stream ingestion, real-time processing, and analytics, improving data processing efficiency.
- Developed scalable database solutions for large datasets, optimizing data loading of Reddit data with pg_bulkload, implementing spatial queries for a peer-to-peer taxi service using Apache SparkSQL, and utilizing PostgreSQL partitioning and query optimization techniques to enhance data retrieval efficiency and support advanced analytics.

Rich Text Doc (PDF) RAG for Arxiv Papers

(Apache Kafka, RocksDB, Faiss,S3,Lambda, OpenAi)

Engineered a Retrieval-Augmented Generation (RAG) pipeline to query multimodal academic papers from arXiv, utilizing AWS S3,
 Lambda, RocksDB, FAISS, and Kafka to process, store, and retrieve embeddings for enhanced reasoning with OpenAI's LLMs.

Multi-Tier Elastic Web Application

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

- Developed a scalable multi-tier web application for face recognition using Spring Boot to build RESTful APIs and integrate AWS services like EC2, S3, and RDS via Spring Cloud AWS, ensuring high availability and efficient data processing for large datasets.
- Designed a **dynamic load-balancing** and **auto-scaling** solution using **AWS SQS** for messaging and **AWS CloudWatch metrics** for automated scaling, achieving 99.9% uptime.
- Implemented a **serverless architecture** with **Spring Cloud Function** for event-driven workflows, enabling seamless deployment on **AWS Lambda**. Integrated with **S3** and **API Gateway** to automate video processing tasks, achieving zero downtime and robust performance.

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

- Developed **ASU's text-to-video data pipeline** by curating large-scale datasets (Panda70M, OpenVid, VidGen) for advanced video captioning.
- Evaluated top models (LLaVA, QWEN, ORYX) using EMSCORE, SPICE, and BLEU, optimized prompt engineering, and synthesized a refined dataset to **enhance text-to-video generation systems**.