

KRISHNA MARRIPATI

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EDUCATION

NC State University, Raleigh, NC

May 2025

Master of Computer Science

GPA:3.88/4.0

Coursework: Design & Analysis of Algorithms, Software Engineering, Computer Networks, Computer Network Security.

Osmania University, Hyderabad, India

May 2020

Bachelor of Engineering in Computer Engineering

GPA: 8.7/10

Coursework: Operating Systems, Computer Networks, Computer Organization & Architecture, Cryptography.

SKILLS

Programming: Java, SpringBoot, Go, Python, Flask, Django, C/C++, Nodejs, Typescript, React.js, Express.js, HTML, CSS.

Data: SQL, MySQL, MongoDB, PostgreSQL, Redis, NoSQL, AWS DynamoDB, CosmosDB, Databricks, Apache Spark, Apache Airflow, Amazon Redshift, AWS S3, Elastic Search, Apache Kafka, Apache Hadoop, Grafana, Prometheus, Firebase.

Software Development: Software Development, Testing, Git, Agile, Scrum, REST API, Microservices, Data Structures, Docker

Tools/Frameworks: Git, OpenAPI, Postman, Windows & Linux, Cloud platforms (AWS, Azure and GCP)

WORK EXPERIENCE

Research Analyst, NC State University, Raleigh, NC

May 2024 - Present

Data/Software Engineer

- Designed and implemented a scalable **ETL** pipeline using **Python** and **Apache Airflow** to extract and process 1.6 million tweets from Brandwatch, leveraging Apache **Kafka** for real-time data streaming and storing the processed data in AWS **Redshift**.
- Leveraged **PySpark** and **Pandas** to transform datasets and implemented sentiment analysis of tweets using an open-source **RoBERTa** model, resulting in a cost savings of approximately **\$5,000** in OpenAI credits and a **50%** improvement in project turnaround time.
- Optimized data storage by leveraging AWS **S3** and utilized AWS **Athena** to run on-demand SQL queries, while developing dynamic dashboards in AWS QuickSight to effectively visualize data sorted by users and regions.

Software Engineer 2, FactSet, Hyderabad, India

July 2022 - July 2023

Full stack Developer

- Led the development and implementation of an internal Service Catalog project, streamlining the deployment of custom-built Amazon Machine Images through a mono repo architecture, while enhancing DevOps efficiency by automating code deployment using **Terraform** modules.
- Created interactive full stack application using **vue.js**, **vuetify**, **Java Spring Boot** and **Postgres** to visualize data and improve decision-making and supported the team in reducing the issue tickets by 65%. Dockerized and deployed the application using AWS ECR and AWS ECS.
- Created and managed dashboards using **Amazon QuickSight**, **PowerBI** incorporating **SPICE** data for swift queries.
- Oversaw data pipeline maintenance, ensuring seamless ingestion from various sources into SPICE dataset for enhanced stakeholder access to critical insights.

Software Engineer, Accellor, Hyderabad, India

Aug 2020 - Jun 2022

Backend Developer

- Developed a full stack application using **Node.js** and **Java** on **Azure Functions**, **Azure Api Management** for JWT authentication, **Azure repos** for source control and **CosmosDB** as persistent layer.
- Designed and developed **Java** classes to retrieve the availability of spaces for a specified time range under 200ms.
- Integrated Square as the primary payment gateway and added third-party services like Apple Pass and Google Pass for visitor management. Increased revenue by 30% by adding support for Card, POS terminal, Google Pay, and Apple Pay using **Java SDK** for square.

Analyst Deloitte

Jan 2020–June 2020

Intern analyst

- Developed a **Python** based monitoring system to check network and server health for internal systems, thereby reducing testing time by 8 hrs. Planned and created a testing suite for the internal systems.