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, Human computer Interaction, Internet protocols, Automated learning and data analysis, Object oriented programming.

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
- Developed Data Pipeline using Python, Docker and Spark to **ingest and analyze 1.6 million** tweets spread across 150 users.
- Transformed the dataset using **pySpark** and **Pandas** to include the sentiment analysis of the tweet using open source RoBERT model, thereby saving around **5000$** in openAI credits and improving the pace of the project by **50%**.
- Stored the dataset in AWS S3 and utilized AWS Athena to run on-demand SQL queries, developed a dashboard using AWS Quicksight to 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 that provided users with a self- service way to deploy custom-built Amazon Machine Images by adapting a mono repo style for the project.
- Improved the efficiency of the **DevOps** team by automating the deployment of code with **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.