# SUMANTH REDDY BONTHA

Orlando, FL  ||  +1 (407)-388-4436  ||  sumanthredddy.bontha@gmail.com  ||  LinkedIn  ||  Github

## EDUCATION

**University of Central Florida**  **Master** of Science in Computer Science  *May 2025*
*Coursework*: Design and Analysis of Algorithms, Data Mining, Machine Learning, Computer Vision
**Osmania University**  **Bachelor** of Engineering in Computer Science  *May 2022*
*Coursework*: Computer Networks, OOPS, DBMS, Operating Systems, Machine Learning, NLP , Cloud Computing

## TECHNICAL SKILLS

| | |
|---|---|
| *Programming Languages* | : Java, JavaScript, Python, HTML5, CSS3, C |
| *Frameworks & Tools* | : React.js, Spring Boot, Flask, Node.js, Docker, Git |
| *Cloud & DevOps* | : AWS (EC2, S3, Lambda), GCP |
| *Databases* | : PostgreSQL, SQL, MongoDB |
| *Machine Learning* | : Scikit-learn, TensorFlow, PyTorch, Spark ML |

## CERTIFICATIONS

Programming and Data Structures using Python – **NPTEL**  Algorithmic Toolbox – **Coursera**

## PROFESSIONAL EXPERIENCE

**SOFTWARE ENGINEER**  **ENERGY TECH GLOBAL, HYDERABAD, INDIA**  *May 2022 – July 2023*

- Developed and optimized back-end services with **Java** and **Spring Boot**, improving request handling efficiency by 30% and reducing average response times by 20%.
- Designed and deployed **RESTful** APIs, increasing system throughput by 25% and enabling seamless integration with external systems.
- Implemented robust data validation and exception handling processes, cutting production error rates by 40% and improving overall reliability.
- Optimized database queries and indexing in **PostgreSQL**, reducing query execution times by 50% and lowering server resource utilization by 15%.
- Established automated test suites and **CI/CD** pipelines, increasing deployment frequency by 30% and reducing lead time for changes by 40%.
- Led performance tuning efforts that scaled the system to handle 10,000+ concurrent users without performance degradation.

**SOFTWARE ENGINEER INTERN**  **ENERGY TECH GLOBAL, HYDERABAD ,INDIA**  *Feb 2022 – May 2022*

- Built and deployed REST APIs using **Spring Boot**, improving data retrieval efficiency by 15%.
- Enhanced backend workflows by using **SQL** and **JDBC** to streamline data processing, reducing query execution times by 30%.
- Assisted in creating responsive front-end interfaces with **HTML**, **CSS**, and **React**, improving user satisfaction scores by 10%.

## PROJECTS

**E-COMMERCE PLATFORM**  *Sep 2023 - Nov 2023*
Tech Stack: Java, React.js, AWS, PostgreSQL, Docker

- Built and deployed a **full-stack** e-commerce simulation platform for handling products, carts, orders, and authentication; used by peers for testing and demoed to a faculty panel.
- Deployed backend **APIs** on **AWS** EC2 and frontend on S3 with **JWT** authentication; resolved 4+ access and session bugs through testing.
- Streamlined dev workflows using **Docker** and **GitHub** Actions with a test-driven development approach, reducing deployment overhead and increasing confidence in feature stability.

**ML-DRIVEN STOCK ANALYSIS PLATFORM**  *Feb 2024 - Apr 2024*
Tech Stack: Python, Pandas, Scikit-learn, Spark, HDFS, GCS

- Engineered an end-to-end data pipeline to process over 2M historical financial records and extract insights from stock movement patterns using **Spark**.
- Applied unsupervised **clustering** techniques and enhanced **classification** models (Random Forest, Decision Trees, XGBoost) by applying **dimensionality** reduction (PCA, t-SNE), achieving over 82% predictive accuracy.