

Hruthi Muggalla

Athens, Georgia | 706-765-3894 | hruthi.muggalla2002@gmail.com | linkedin.com/in/hruthi-muggalla | github.com/Hruthi19

EDUCATION

University of Georgia

Master of Science in Computer Science. CGPA: 3.82/4.0

Athens, GA

Aug. 2024 – May 2026

National Institute of Technology, Rourkela

Bachelor of Technology in Computer Science and Engineering. CGPA: 8.34/10.0

Rourkela, India

Aug. 2020 – May 2024

EXPERIENCE

Data Analyst Intern

SailoTech Private Limited

May 2025 – July 2025

Hyderabad, India

- Redesigned end-to-end data pipelines using Python, Power Query, and Pivot Tables, applying optimized data structures and automated validation checks which reduced data processing turnaround by 20% and improved reporting reliability across 5+ business teams.
- Built and delivered 3 Power BI dashboards with optimized DAX queries, parameterized filters, statistical data modeling and built-in data integrity checks that enabled self-serve data visualization for non-technical users, cutting ad-hoc reporting requests by 35%.
- Engineered an ML-driven automation feature using classification models and rule-based validation logic as part of an AI product development initiative. Improved invoice processing accuracy by 30%, eliminating a critical bottleneck in the billing pipeline.

Software Engineering Intern

Baker Hughes/GE India Industries Pvt. Ltd.

January 2024 – July 2024

Mumbai, India

- Engineered scalable Node.js APIs and Angular components for a production-scale Valve Management System within an Agile/Scrum team, delivering features across four SDLC phases like requirements, design, implementation, and deployment and enabled reliable management of critical valve operations, reducing operational downtime.
- Authored 50+ unit tests in Jest and Jasmine following TDD methodology, covering edge cases and integration boundaries which reduced regression defect rate by 15%, enabling faster and more confident deployments.
- Owned Jenkins pipeline operations end-to-end, integrating automated unit testing, code quality checks, and Black-Duck security scans into every build cycle. Executed 100+ automated builds and deployments, achieving zero security-related production incidents during the internship tenure.

Associate Developer Intern

SAP Labs India

May 2023 – July 2023

Bangalore, India

- Designed and delivered a full-stack Invoice List Application using SAP UI5 with an intuitive, workflow-aligned UI that reduced manual data entry effort by 40%, streamlining the invoice lifecycle for multiple finance stakeholders.
- Built a Travel Desk Platform by integrating SAP UI5 with ABAP backend services, designing data flow and API contracts. The platform handled over 500 transactions per week in testing, confirming production readiness.
- Refactored critical ABAP routines, optimizing query logic and reducing redundant processing layers. Achieved a 30% improvement in application responsiveness and overall system efficiency across dependent applications.

PROJECTS

SafeSight AI | Node.js, Python, React, SQLite, Redis, WebSockets, Docker, Kubernetes Jan 2026 – March 2026

- Built SafeSight AI, a distributed real-time incident detection platform, automating event ingestion, reporting and reduced manual reporting time by 70% and improved response latency by 50%.
- Designed an event-driven backend using Redis (BullMQ) enabling async processing and real-time alerts which increased system throughput by 3x and supported 100+ concurrent events with low latency.

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, JavaScript, TypeScript

Full-Stack (Backend and Frontend): ReactJS, AngularJS, NextJS, Node.js, ExpressJS, FastAPI, Redux, REST APIs, Microservices

DevOps/Cloud: AWS, Docker, Kubernetes, GitHub, Jenkins, MLflow

ML/AI: Scikit-learn, PyTorch, HuggingFace Transformers, LLM Integration, Prompt Engineering, Natural Language Processing, LangChain, LangGraph, AutoGen, Retrieval-Augmented Generation(RAG)

Databases: MySQL, PostgreSQL, SQLite, Redis, firebase, MongoDB

Data & Analytics: Numpy, Pandas, ETL, Feature Engineering, MS Excel, Power BI