Lalitha Samyuktha Jayanthi

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Value Proposition

Data Science graduate with a strong foundation in software engineering, specializing in embedded and cloud edge software development. Skilled in designing, developing, creating, modifying, and validating applications and utility programs. Eager to contribute to system-level software solutions by analyzing user needs, implementing features, performing unit testing, debugging, and collaborating on projects. Proven ability through hands-on projects to deliver high-quality code under tight deadlines, with excellent verbal and written communication skills for technical documentation.

Education

- B. Tech | CSE-Data Science | Avanthi Institute of Engineering and Technology | 2025 | 7.88 CGPA
- Intermediate | Sri Chaitanya Jr. College | 2021 | 9.12 CGPA
- Tenth | Sri Chaitanya School | 2019 | 9.5 CGPA

Technical Proficiencies

- Programming Languages: Python, Java.
- Tools & Frameworks: Git, AWS IoT Core, Azure Edge, Google Tes
- Software Development: Embedded Software, Cloud Edge Applications, Unit Testing, Debugging, Code Reviews, Regression Tests, Technical Documentation
- Soft Skills: Collaboration, Problem-Solving, Prioritization, Verbal and Written Communication.

Projects

Embedded IoT Device Controller
- Designed and developed an embedded software application for a Raspberry Pi-based IoT device to monitor environmental sensors, applying software knowledge to create, modify, and validate utility programs for real-time data processing.
- Analyzed user needs and software requirements to implement small features, including data logging and edge computing integration with AWS IoT Core.

Cloud Edge Application for Real-Time Analytics
- Assisted in the design, development, and validation of a cloud edge software application using Azure Edge services to process streaming data from mobile devices.
- Analyzed software requirements and user needs to design and implement small software features, such as data filtering modules and API integrations.
- Participated in coding (Java and Node.js), unit testing with JUnit, minor debugging fixes, and integration to meet performance requirements and interfaces.
- Conducted code reviews and triaged issues in a team of 4, ensuring quality and timely completion of project objectives.
- Collaborated with systems and test engineers to perform regression tests and document technical aspects, including architecture diagrams.

Utility Program for System Optimization
- Developed and modified a specialized utility program in C to optimize memory usage in embedded systems, focusing on performance requirements and interfaces.
- Designed small features for resource monitoring, performed unit testing, debugging, and integration to validate functionality.
- Assisted in analyzing user needs, conducted code reviews, and triaged minor issues to maintain code quality.

Internships & Simulations

- AI Intern – AIMER Society | 8 Weeks
- ML Intern – Indian Servers | 8 Weeks
- Data Science Intern – Yhills | 8 Weeks
- Data Science Intern – Prodigy | 4 Weeks
- Job Simulation – TCS | Forage Plat form

Certifications

- Infosys Springboard certification in Software Engineering and Agile development.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.