Sri Mahitha Madhira

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EDUCATION

Georgia State University — Atlanta, GA
Master of Science in Computer Science, GPA 4.15/4.30 — *Jan 2025 – Present*

Indian Institute of Information Technology — Sri city, India
Bachelor of Technology in Computer Science, GPA: 8.9/10.0 — *Aug 2018 – May 2022*

EXPERIENCE

Engineering Lead - Graduate Research Assistant — Jan 2025 – Present
AI2 Research Laboratory, Georgia State University — *Atlanta, GA*
- Led development of an AI-first platform using React, Django, GPT-4o, LangChain, and Neo4j to generate assignment summaries, key concepts, and causal graphs.
- Building an LLM-powered plagiarism and scoring system that flags public or copy-pasted content via web search and semantic checks, and compares student work to reference models for rubric-based grading.

Software Engineer — Jan 2024 – Nov 2024
Toddle - Your Teaching Partner — *Bengaluru, India*
- Engineered an end-to-end **long running tasks** pipeline to manage heavy requests without causing timeouts, leading to a **76% optimization** in operations such as attendance synchronization
- Implemented multiple internal tools as in **Bulk units download tool, Grade Book data transfer tool, Third party portfolio import tool** using Node.js, React.js, AWS Lambdas, PostgreSQL and GraphQL.

Associate Software Engineer — Feb 2023 – Dec 2023
Toddle - Your Teaching Partner — *Bengaluru, India*
- Architected the **AWS serverless infrastructure** for the analytics module utilizing Clickhouse Database for optimized data processing and analysis
- Constructed the product's authorization framework from the ground up and orchestrated the migration of existing user data of over **800,000 user records** to the new system, ensuring seamless transition and data integrity

Software Development Engineer 1 — June 2022 – Jan 2023
Ola Electric — *Bengaluru, India*
- Optimized the logic for the command center of OLA Electric, **boosting page speed by 54%**
- Spearheaded the development of key deliverables in MOVE OS3, including **Battery's State of Health estimation, Range performance calculation and ride statistics**, resulting in a **12% increase in sales**

Software Development Engineer - Intern — Dec 2021 – June 2022
Ola Dash — *Bengaluru, India*
- Overhauled the support portal of OLA DASH by redesigning the user interface and backend processes, **enhancing user satisfaction by 30%** and **cutting support response times by 15%**
- Unified the catalog within vendor management systems to streamline data flow and improve consistency by reducing processing time by **20%** across platforms
- Partnered with 3 interns and senior developers to brain- storm and implement the clean up of OLA DASH's offer engine, **reducing the memory consumption by 13%**

PROJECTS

DeSML | *Project Lead* — Jan 2021 – Dec 2021
- Defense for flooding attacks in Software Defined Networks using Machine Learning
- Developed a Support Vector Machine to detect the DDoS attacks in SDN
- Mitigated effects of DDoS attack using game theory approach

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Go, HTML/CSS
Frameworks: React.js, Node.js, Django, Spring Boot, JUnit, Flask, Material-UI, GraphQL
Developer Tools: Git, IntelliJ, Apache kafka, Apache flink, Apache Spark, Mininet, Netlogo, Redis
Databases: MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j, Google Firebase
Cloud/ DevOps: AWS, Docker, Azure, Kubernetes