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THEJAS MEDDEPOLA

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ABOUT ME

Computer Science and Engineering undergraduate with strong foundations in software engineering, distributed systems, and computer networks. Experienced in building full-stack applications, secure systems, and scalable backend services through industry internships and academic projects. Actively seeking a full-time Software Engineer role to contribute to real-world, high-impact engineering solutions while continuing to grow as a systems-focused developer.

SKILLS

- **Programming Languages:** C++ | Python | Java | TypeScript
- **Database:** MySQL | PostgreSQL | MongoDB
- **Technical Fields:** Software Engineering | System Design | Distributed System | Computer Networks | Computer Security
- **Frameworks and Libraries:** React | Spring Boot | React Native | NodeJS
- **Tools:** Git | GitHub | Docker | Linux

HIGHLIGHTS

- Deans List (Semester 6)
- Cypher2.0 by KDU Runners Up
- CyberZee'24 Finalists
- Hacktoberfest 2023

EXTRA CURRICULAR ACTIVITIES

- Computer Science & Engineering Society - Vice President - Public Relations
- Batch Representative (4, 5 & 6 Sem)

EDUCATION

University of Moratuwa

2022 - Present

BSc Eng Hons, Computer Science and Engineering

- Stream - Cyber Security | CGPA - 3.56

D.S.Senanayake College, Colombo 7

2012 - 2020

- AL 2020 | 3A | IR - 87
- OL 2017 | 9A

WORK EXPERIENCE

Tortil Inc.

2024 Oct- 2025 Jun

Software Engineering Intern

- Developed and optimized responsive web and mobile UIs, improving cross-platform consistency and overall user experience.
- Implemented bug fixes and performance enhancements through structured testing and debugging, improving application stability.
- Contributed to SDK development and REST API integrations to support end-to-end feature delivery across multiple services.
- Collaborated closely with designers and backend engineers in an Agile development environment.

University of Moratuwa

2025 Jul - 2025 Nov

Teaching Assistant

- Data Communication and Networks

PROJECTS

Cryptographically Secure Electronic Election System

2025 Sep - 2025 Oct

Java | Spring | React Native | React

- Developed the React Native mobile application for secure, real-time vote casting.
- Integrated the frontend with backend services using RSA Blind Signatures and Paillier homomorphic encryption for anonymous and verifiable voting.
- Implemented secure API communication, input validation, and session handling for end-to-end voting workflows.
- Collaborated with backend engineers to validate encrypted vote submission and receipt-freeness from the client side.

Modified Transformer Architecture for Distributed LLMs in Resource-Constrained Environments

2025 Jul - Ongoing

CUDA | PyTorch | Python

- Introduces a branched transformer topology with parallel mini-stacks that synchronize only at defined fusion layers, reducing sequential dependency.
- Minimizes per-token network round-trips, enabling low-latency distributed inference across commodity GPUs over standard Ethernet.
- Uses piece-wise distillation to train parallel branches efficiently, maintaining model fidelity while enabling scalable distributed execution.

CLI Chatroom

2024 Sep

Python | Socket Programming | Threading

- A real-time Chat Client implemented using Python's socket programming and threading capabilities.