Siddharth Mago

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EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY   **Hyderabad, India**
Bachelor of Technology in Computer Science Engineering   *July 2023 - May 2027*

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Database and Applications
- Operating Systems and Networking
- Design and Analysis of Software Systems
- Introduction to Information Security
- Machine, Data and Learning
- Internet of Things
- Probability and Statistics
- Discrete Mathematics

EXPERIENCE

WAYVE MOBILITY   **Pune, India**
Summer Intern   *June 2024 - July 2024*

- Collaborated on the development of the **Infotainment System** for a cutting-edge pre-production electric city car, integrating **real-time data collection from multiple vehicle sensors** for seamless display on the car's central touchscreen interface.
- **Collected, processed, and displayed critical sensor data** on the car's dashboard, gaining expertise in automotive sensor technologies and their interactions within electric vehicle systems.
- Developed a comprehensive understanding of electric vehicle architecture and system integration to optimize vehicle performance, supporting final design adjustments ahead of commercial release.

REVERA CLOTHING   **Pune, India**
Developer   *September 2024 - October 2024*

- **Designed and developed the front-end** of the brand's website using **Bootstrap**, ensuring a responsive and user-friendly interface.
- Set up the online store using **Shopify**, **integrating product listings, payment gateways, and customer management tools** to create a seamless e-commerce experience.

PROJECTS

- **Skedulr** — *A Full-Stack Scheduling Application*
  - Made using **Flask** routing, **HTML-CSS** front end, and Python/**JavaScript** back end, automating calendar schedule generation for IIIT students.
  - Developed a structured **data repository** in MS Excel, enabling creation of personalized Google Calendar events for **classes and meals** based on semester inputs.
- **Network File System** — *Distributed C-based File System*
  - Developed a distributed file system with **clients, naming server,** and **storage servers**, supporting key operations like read, write, delete, and file streaming.
  - Implemented **asynchronous writes**, **concurrent access**, **LRU caching**, and **data replication** to enhance performance, scalability, and fault tolerance.
  - Designed **robust error handling** and **detailed logging** for real-time insights into client-server interactions.
- **MediaMeld** — *A Full-Stack Slideshow Application that combines input media into a customizable video.*
  - Implemented drag-and-drop/file upload, customizable image/video ordering, and background music selection, allowing users to create and download personalized slideshows that supports **all file formats**.
  - Developed with Flask routing, **Cockroach DB** storage, and **token-based authentication**, supporting **persistent user sessions** for saved images and videos.
- **Shell** — *C-based Multi-file POSIX Shell*
  - POSIX-compliant shell that supports **I/O redirection**, **pipelining, background processes, multi-command inputs**, and an extensive range of shell commands alongside **custom functions.**
  - Engineered with **modular design** for robust functionality, enabling command execution with flexible input/output handling and seamless multitasking.

SKILLS

Languages: Python, C, C++, HTML, CSS, JavaScript, x86 Assembly, SQL

Technologies: Bootstrap, Cockroach DB, Mongo DB, ReactJS, NodeJS, Git, Jupyter, OpenCV, AWS, Flask, MySQL, PostgreSQL, Google APIs, Thingspeak