

# Mellachervu Srikar

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## EDUCATION

### UNIVERSITY OF HYDEARABAD INTEGRATED MASTERS OF TECHNOLOGY

June 2026 | Hyderabad, India  
Cum. GPA: 9.568 / 10

## LINKS

Github:// [Srikar04](#)  
LinkedIn:// [Srikar](#)

## COURSEWORK

Data Structures & Algorithms  
Database Management Systems  
Object Oriented Design  
Internet Technologies  
Operating Systems  
Computer Based Optimization Techniques  
Computer Based Numerical Techniques

## SKILLS

### PROGRAMMING

Java • Shell • C/C++ • Javascript • Python  
Latex

### WEB DEVELOPMENT

#### Client-Side Technologies:

React • Material UI • HTML • CSS •  
JavaScript • AJAX • Bootstrap • jQuery •  
XML • JSON

#### Server-Side Technologies

Node JS • GraphQL • Java Server Pages  
(JSP) • Java Servlets • PHP • JDBC  
Connectors

#### Databases

MySQL • MongoDB • PostgreSQL

## ACHIEVEMENTS

- Successfully cleared the **Smart India Hackathon (SIH)** 2023 at the internal level.
- Achieved the **2nd** place in a university-wide coding competition.

## EXPERIENCE

### YBI FOUNDATION | MACHINE LEARNING INTERN

Feb 2024 – Ongoing

- Gained experience in Machine Learning, including training and testing models.
- Implemented multiple models such as Chance of Admission Prediction, Ice Cream Sales Prediction, and Cancer Prediction on various datasets.
- Utilized Python programming language and libraries like Scikit-learn, Pandas, and NumPy for data preprocessing, model training, and evaluation.

## PROJECTS

### MEMOVAULT | [Live](#) | [Codebase](#)

- Built the frontend of the web application using **HTML, CSS, JavaScript, ReactJS, and Material UI**, ensuring an intuitive and responsive user interface.
- Engineered the backend with **NodeJS** for server runtime, **Express** for the backend framework
- MongoDB** database stores 5GB of user memories data
- Incorporated **Redux** for efficient state management, enhancing the application's scalability and maintainability.
- Executed **CRUD** operations, enabling users to seamlessly create, view, update, and delete memories within the application.
- Launched **Like** feature enabling users to interact with other users memories

### CPU SCHEDULER - OPERATING SYSTEMS | [Codebase](#) | C

- Designed and developed a program to test the efficiency of four fundamental CPU scheduling algorithms (**FIFO, SJF, PR, and RR**), as well as a **custom algorithm**.
- Evaluated the algorithms in terms of CPU utilization, throughput, turnaround time (in ms), and waiting time (in ms) in the ready queue.
- Emulated and simulated processes with varying priorities, **CPU burst times (ms)**, and **I/O burst times (ms)**.

### A-Z GROCERIES | [Codebase](#)

- Crafted a grocery website using **HTML, CSS, JavaScript, Java Server Pages(JSP), Servlets, jQuery, XML, and JSON**.
- Created three distinct roles:
  - Customer Role:** Empowered customers to add and delete items to/from the cart using **Java sessions** for cart functionality.
  - Shopkeeper Role:** Enabled shopkeepers to restock products and send products to Amazon.
  - Amazon Role:** Built a new role where Amazon receives HTTP requests and processes **XML** documents.