

SAI VEEKSHITH KOTHA

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LinkedIn

GitHub

EDUCATION

International Institute of Information Technology, Hyderabad

B.Tech in Computer Science Engineering - CGPA: 8.62/10

Aug 2023 – Present

Hyderabad, India

Sri Chaitanya Junior College

Intermediate Education, MPC - 98.3%

Jun 2020 – Jun 2022

Hyderabad, India

RELEVANT COURSEWORK

Data Structures and Algorithms | Operating Systems & Networks | Data & Applications | Probability & Statistics | Algorithms Analysis & Design | Design and Analysis of Software Systems | Automata Theory | Computer Graphics | Computer Systems Organization | Machine, Data and Learning | Numerical Algorithms | Performance Modeling in Computer Systems

EXPERIENCE

Swecha

Software Intern

Jan 2025 – Apr 2025

Remote

- Worked with a team of 5 to develop and deploy a comprehensive web application for managing and tracking 20+ medical camps organized by the NGO, streamlining event coordination and volunteer management.
- Built the application using the MERN stack, implementing over 10+ essential features to ensure scalability and a seamless user experience.
- Implemented real-time data analytics and reporting features tailored for 3 distinct user roles—admins, volunteers, and patients enhancing decision-making and improving resource allocation.

PROJECTS

Simple Network File System | *C, Socket Programming, Data Structures, TCP/IP, Concurrency*

Github-Link

- Collaborated with a team of 4 to design and build a distributed file system, optimizing search with LRU caching and Tries data structures. Utilized multithreading, socket programming, and redundancy techniques for scalability, performance, and fault tolerance in a concurrent multi-user environment.

Custom C-Shell | *C, POSIX libraries, Network Programming, OS*

Github-Link

- Engineered a custom UNIX-like shell implementing 6+ essential features such as pipes, I/O redirection, command history, and custom directory/process management commands. Integrated basic networking functionalities for remote communication and file transfer.

Buy/Sell@ IIITH Website | *MERN Stack, JavaScript*

Github-Link

- Constructed a full-stack marketplace using Node.js, Express.js, React, and MongoDB with 6+ API endpoints for user authentication, shopping cart, and order processing.
- Integrated real-time chat support with Gemini API and implemented OTP-based order verification across 4+ data models (User, Item, Cart, Order).
- Architected modular backend with 6 route handlers and custom middleware, designed responsive UI with 10+ React components using Vite and Tailwind CSS.

Real Estate Management System with Multi-User CLI | *Python, MySQL, PyMySQL, Database Design*

Github-Link

- Engineered a relational database with 8+ tables for real estate operations, and constructed a 900+ line Python CLI app with role-based access and CRUD functionalities for property and realtor management.
- Devised robust data validation, error handling, and transaction management (commit/rollback), and structured the code using modular architecture and virtual environment dependency management.

TECHNICAL SKILLS

Languages: C, C++, Python, HTML, CSS, Javascript, SQL, Bash

Databases: MongoDB, MySQL, PostgreSQL

Frameworks/Tools: Express.js, React.js, Node.js, Flask, Git, GitHub

ACHIEVEMENTS/EXTRACURRICULARS

- Achieved an **All India Rank (AIR) of 828** in **JEE Mains 2023**.
- Secured an **AIR 1226 JEE Advanced 2023**.
- Collaborated with a team to develop a MERN stack-based web solution for **Swecha**, streamlining medical camp management and supporting volunteer coordination.
- Contributed to the logistics team for **Felicity**, coordinating event operations and supporting team efforts to ensure smooth event execution.