Sai Pavan Kumar Vedulapurapu

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Education

SRM University, AP   *Aug 2023 – Present*
B.Sc. (Hons.) in Computer Science — Big Data Analytics
CGPA: 8.64 / 10

Relevant Coursework: Database Management Systems, Data Structures, Analysis of Algorithms, Machine Learning, Operating Systems, Data Mining and Data Warehousing

Technical Skills

Programming	Python, JavaScript, C
Web & Backend	FastAPI, React, Node.js, REST APIs
Databases	PostgreSQL, MySQL, Data Modelling
Analytics & BI	Power BI, Excel
DevOps & Tools	Docker, Linux, Bash, Git, GitHub
CS Foundations	Data Structures, Algorithms, DBMS, Operating Systems

Projects

AEGIS AI — Agentic AI platform for Business Decision Making
Technologies: Python, FastAPI, REST APIs, PostgreSQL, Git
Link: GitHub Repository

- Developed an API-based backend application using FastAPI to handle request processing and data flow.
- Implemented RESTful endpoints for structured data ingestion and retrieval.
- Used Docker for local containerization to maintain consistent development environments.
- Designed relational database schemas and managed structured data using PostgreSQL.
- Gained hands-on exposure to backend architecture, API communication, and container-based development.

Multi-Threaded Web Crawler using C
Link: GitHub Repository

- Developed a concurrent web crawler in C to fetch and process web pages efficiently.
- Applied multithreading concepts to improve performance and resource utilization.
- Strengthened understanding of Operating Systems concepts such as threads and synchronization.

Spice Stories — Recipe Discovery Web Application
Link: GitHub Repository

- Designed and developed a recipe-based web platform with a focus on usability.
- Implemented a file-based ETL workflow to extract, validate, and normalize recipe data stored in JSON format.
- Currently developing backend services using Python.

Extra-Curricular Activities

Coding Club Member, SRM University AP   *Aug 2024 – Present*

- Participate in coding sessions, peer learning, and collaborative problem-solving.

Participant, SWEeyam Hackathon

- Participated in a university-level hackathon focused on problem-solving and rapid application development.