

VEERAMALLU SAI ABHIRAM

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Objective

Results-driven Computer Science student with hands-on experience building scalable, user-centric applications across full-stack and backend workflows. Skilled in SQL database design, relational modeling, indexing, and performance optimization using MySQL and PostgreSQL. Proficient in JavaScript, HTML5, CSS3, PHP, and Python. Strong in DSA, clean coding practices, debugging, and collaboration within agile environments.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, JavaScript
Frameworks: React, Flask, HTML5, CSS3
Tools: Git, VS Code, Jupyter Notebook
AI/ML: Generative AI, LLMs, Neural Network Basics
Core Concepts: OOP, DSA, Relational Databases,

EDUCATION

Vellore Institute of Technology (VIT), Vellore B.Tech in Computer Science	2023–2027 CGPA: 9.23
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Sri Chaitanya Junior College, Visakhapatnam Class XII (Intermediate)	2021–2023 96%
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PROJECTS

Hospital Database Management System (HDMS) <i>PHP, MySQL, HTML, CSS</i>	Oct 2025
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- Engineered a full-stack hospital management system automating patient registration, appointments, billing, pharmacy workflows, laboratory testing, triage processing, and reporting dashboards.
- Designed a normalized MySQL schema with foreign keys, cascading rules, indexing, and optimized joins to ensure high-performance multi-module querying.
- Implemented multi-tier **Role-Based Access Control (RBAC)** for Admin, Doctors, Nurses, Lab Technicians, and Pharmacy Staff.
- Developed secure modules for billing, medication dispensing, lab test ordering, medical records, and revenue tracking.
- Strengthened backend security using prepared statements, SQL injection prevention, input sanitization, and password hashing.
- Automated workflows such as test result updates, appointment scheduling, and pharmacy logging through integrated UI logic.
- Built analytical dashboards displaying patient volume, pharmacy statistics, revenue trends, and diagnostic insights.

AI-Based PDF Chatbot <i>Flask, Google Gemini LLM, pdfplumber, HTML/CSS/JS</i>	Summer 2025
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- Built a Generative-AI PDF chatbot enabling real-time question-answering over PDF documents using Google Gemini LLM.
- Integrated PDF text extraction using **pdfplumber**, combined with dynamic chunking and context-aware prompting for accurate information retrieval.
- Designed a responsive chat UI supporting multi-turn interactions with persistent session memory.
- Secured the AI workflow using environment-isolated API keys, token safety mechanisms, and validated request boundaries.

CERTIFICATIONS AND ACHIEVEMENTS

IBM Internship Certificate
VIT Merit Scholarship for Academic Excellence

RELEVANT COURSEWORK

Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Artificial Intelligence, Cloud Architecture, Python, Java.