

VEERAMALLU SAI ABHIRAM

Vellore, Tamil Nadu, India — +91 8985986371 — abhiram97137@gmail.com
linkedin.com/in/abhiveeramallu — github.com/abhiveeramallu

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

Sri Chaitanya Junior College, Visakhapatnam
Class XII (Intermediate)

2021–2023
96%

PROJECTS

Hospital Database Management System (HDMS)
PHP, MySQL, HTML, CSS

Oct 2025

- 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

Summer 2025

Flask, Google Gemini LLM, pdfplumber, HTML/CSS/JS

- 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.