# 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** — 2023–2027
B.Tech in Computer Science — CGPA: **9.23**

**Sri Chaitanya Junior College, Visakhapatnam** — 2021–2023
Class XII (Intermediate) — **96%**

## PROJECTS

**Bot Detection with AI** — 2026
*JavaScript, Browser Fingerprinting, AI Risk Scoring*

- Designed and implemented a multi-layer bot detection system to identify automated traffic generated using **Selenium, Puppeteer, and Playwright**.

- Combined browser fingerprinting, behavioral analysis, honeypot traps, and a custom behavior-based CAPTCHA to distinguish humans from bots with minimal user friction.

- Built an **AI-based risk scoring engine** that evaluates interaction timing, mouse movement patterns, CAPTCHA behavior, and automation indicators to classify sessions.

- Developed a clean, human-friendly authentication UI alongside an **admin dashboard with explainable AI logs**, providing transparent decision reasoning and confidence indicators.

- Validated system robustness by simulating real-world bot attacks using Selenium, Puppeteer, and Playwright against a live deployment.

**Hospital Database Management System (HDMS)** — Oct 2025
*PHP, MySQL, HTML, CSS*

- Engineered a full-stack hospital management system supporting patient registration, appointments, billing, pharmacy operations, and laboratory workflows.

- Designed a normalized MySQL database schema with foreign keys, indexing, and optimized joins to ensure efficient multi-module data access.

- Implemented secure **Role-Based Access Control (RBAC)** for Admin, Doctors, Nurses, Lab Technicians, and Pharmacy Staff.

- Strengthened backend security using prepared statements, input validation, and password hashing to prevent common web vulnerabilities.

## 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.