

G Anirudh

SOFTWARE DEVELOPMENT ENGINEER · FULL-STACK

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EDUCATION

SRM Institute of Science and Technology

Chennai, India | 2024 - 2028

B.Tech in Computer Science and Engineering · CGPA: 8.35 / 10

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems

TECHNICAL SKILLS

Languages	Python, C++, Java, C, JavaScript
Frontend	React.js, HTML5, CSS3, Tailwind CSS
Backend & APIs	Node.js, Express.js, Flask, FastAPI, REST APIs
Databases	MongoDB, MySQL, PostgreSQL, Redis
AI / ML & Data	NumPy, Pandas, OpenCV, Q-Learning, Bayesian Inference
Tools & DevOps	Git, GitHub, Docker, Streamlit, ChromaDB, JWT

PROJECTS

ProjectSync — Agentic Project Management System

Python · FastAPI · PostgreSQL · Redis · Docker · Streamlit · LLM

- Architected an autonomous multi-agent AI system with 8 specialized agents (Orchestrator, SEPM, Resume Analyzer, Optimization) to manage student software engineering projects end-to-end
- Implemented Q-learning based task assignment with 13 scenario handlers and Bayesian skill tracking for intelligent role allocation across team members
- Integrated real-time GitHub monitoring with 7 perception signals and support for 5 SEPM methodologies (Agile, Waterfall, Spiral, V-Model, Prototyping)
- Containerized full infrastructure with Docker Compose — PostgreSQL, Redis, and ChromaDB — with a Streamlit dashboard for real-time project oversight

HospitalApp — Appointment & Queue Management System ✓ Deployed

React.js · Node.js · Express · MongoDB · JWT · Tailwind

- Sole developer and technical lead — designed and shipped a full-stack hospital management platform with role-based access for patients, doctors, and receptionists
- Built JWT-authenticated REST APIs with bcrypt password encryption, auto-generated token queuing, and real-time status tracking (Waiting → In Progress → Done)
- Implemented complete medical records module enabling doctors to log diagnoses, prescriptions, and consultation notes with secure patient-scoped access control
- Deployed on Vercel with MongoDB Atlas; supports both pre-booked and walk-in patient workflows within a unified queue system

PalmOracle — Computer Vision Palmistry Web App

React · Flask · OpenCV · Python

- Built a full-stack web application that uses OpenCV-based computer vision to detect and analyze palm lines, mapping features to rule-based AI interpretations
- Designed a React frontend that captures or uploads hand images and displays structured palmistry readings generated from real-time image processing

RetailFlow — Inventory Management System

React · Node.js · MySQL

- Developed a full-stack retail inventory platform with MySQL-backed CRUD operations for product tracking, stock updates, and inventory reporting

ACHIEVEMENTS & CERTIFICATIONS

HackRush 2.0 — Reached finals among 30+ teams; built PawPilot, Code a full-stack pet care management platform

Solved 30+ problems across Data Structures and Algorithms

NPTEL — 3 Certification Objects-Oriented Programming, Programming in Java, Database Management Systems

Maintaining 8.35 CGPA through consistent performance across all semesters