

G ANIRUDH

Software Development Engineer · Full-Stack

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PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on experience designing and building full-stack, database-backed applications across multi-component architectures, REST APIs, and containerized infrastructure. Skilled in application and component design, requirements analysis, and analytical problem solving through project work spanning agentic systems, role-based platforms, and data-driven workflows. Quick to learn new tools and domains, with practical exposure to multiple software development methodologies.

EDUCATION

SRM Institute of Science and Technology

B.Tech in Computer Science and Engineering

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

Chennai, India | 2024 – 2028

CGPA: 8.35 / 10

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript

Frameworks & APIs: React.js, Node.js, Express.js, Flask, FastAPI, REST APIs, HTML5, CSS3, Tailwind CSS

Databases: PostgreSQL, MySQL, MongoDB, Redis, ChromaDB

AI / ML & Data: NumPy, Pandas, OpenCV, Q-Learning, Bayesian Inference

Tools & DevOps: Git, GitHub, Docker, Docker Compose, Streamlit, JWT

PROJECTS

ProjectSync — *Agentic Project Management System*

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

- Architected a multi-component, multi-agent system of 8 specialized agents (Orchestrator, SEPM, Resume Analyzer, Optimization) to manage the full software engineering project lifecycle for student teams.
- Designed a Q-learning based task-assignment engine with 13 scenario handlers and Bayesian skill tracking, applying analytical modelling to drive intelligent role allocation across team members.
- Integrated real-time GitHub monitoring using 7 perception signals and built in support for 5 SEPM methodologies (Agile, Waterfall, Spiral, V-Model, Prototyping), demonstrating exposure to varied SDLC approaches.
- Containerized the full infrastructure with Docker Compose across PostgreSQL, Redis, and ChromaDB, and built a Streamlit dashboard for real-time project oversight and monitoring.

HospitalApp — *Appointment & Queue Management System (Deployed)*

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

- Owned end-to-end design and development as sole developer, delivering a full-stack hospital management platform with role-based access control for patients, doctors, and receptionists.
- Designed and implemented JWT-authenticated REST APIs with bcrypt password encryption, auto-generated token queuing, and real-time status tracking (Waiting → In Progress → Done).
- Modelled and built a medical records module enabling doctors to log diagnoses, prescriptions, and consultation notes, enforcing secure, patient-scoped data access.
- Deployed the application on Vercel with MongoDB Atlas, supporting both pre-booked and walk-in patient workflows within a unified queue system.

RetailFlow — *Inventory Management System*

React · Node.js · MySQL

- Designed and developed a full-stack retail inventory platform with a MySQL-backed relational schema for product tracking, stock updates, and inventory reporting.
- Implemented complete CRUD operations and data workflows to support accurate, real-time inventory management.

PalmOracle — *Computer Vision Palmistry Web App*

React · Flask · OpenCV · Python

- Built a full-stack application integrating an OpenCV-based computer vision pipeline to detect and analyze palm features in real time.
- Developed a React frontend for image capture/upload and structured result display, connected to a Flask backend for rule-based interpretation logic.

ACHIEVEMENTS & CERTIFICATIONS

- HackRush 2.0** — Reached finals among 30+ teams; built PawPilot, a full-stack pet care management platform.
- NPTEL Certifications (3):** Object-Oriented Programming, Programming in Java, Database Management Systems.
- Competitive Programming:** Solved 30+ problems across Data Structures and Algorithms.
- Academics:** Maintained 8.35 CGPA through consistent performance across all semesters.