

VISHNU R

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SUMMARY

Final-year B.Tech Information Technology student (CGPA 8.2, graduating 2027) with hands-on software engineering experience building REST APIs, CRUD-based backend systems, and object-oriented Python applications. Experience designing modular, dependency-injected components and integrating third-party and GenAI APIs (Google Gemini) into production-style tools. Actively strengthening data structures and algorithms on LeetCode. Seeking a Software Development Engineer Intern role to own code from design through deployment and build scalable, distributed systems.

EXPERIENCE

HOGC — Developer Intern

July 2026 – Present

- Contributing to a reusable CRUD Engine and backend packages in Python and Flask, applying object-oriented design to eliminate duplicated data-access logic across multiple projects.
- Designing REST APIs with modular architecture and dependency injection, structuring components for scalability, maintainability, and code reuse.
- Collaborating with the engineering team on database integration and backend package design within an agile workflow, participating in technical/code discussions.

PROJECTS

YouTube Comments Analyzer | Python, Flask, Google Gemini API (GenAI), REST API

Mar 2025

- Built a sentiment-analysis tool at SVCE Hackathon, integrating the Google Gemini API via REST to process 1,000+ timestamped YouTube comments per video and generate segment-wise content recommendations.
- GitHub: github.com/vishnu2006034/YouTube-comments-analysis

Hospital Management System | Python, Flask, SQLAlchemy, REST API, CRUD

Jan 2025

- Designed and built a full-stack patient management system handling 200+ records with CRUD operations across admission, discharge, and workflow tracking.
- Architected a normalized SQLAlchemy database schema to support multi-department queries with minimal joins, improving query efficiency.
- GitHub: github.com/vishnu2006034/healthcare

Employee Management System | Python, Flask, SQLAlchemy, CRUD

Dec 2024

- Co-built a Flask-based workforce management system for a 2-person team, owning backend CRUD operations, database migrations, and shift-scheduling/attendance-tracking modules end-to-end.
- GitHub: github.com/vishnu2006034/employee-management

SKILLS

Programming Languages: Python, JavaScript, SQL, HTML/CSS

Databases: PostgreSQL, SQL, Relational Database Design

Backend & Software Design: Object-Oriented Design, Flask, SQLAlchemy (ORM), REST API Development, CRUD Architecture, Modular/Dependency-Injection Design

CS Fundamentals: Data Structures & Algorithms (LeetCode, in progress), Problem Solving, Complexity Analysis

AI / API Integration: Google Gemini API (GenAI), Third-Party REST API Integration, JSON

Tools & Platforms: Git, GitHub, Deployment (Render, Netlify)

Currently Learning: Advanced Data Structures & Algorithms (LeetCode), React

EDUCATION

Jeppiaar Engineering College, Chennai — B.Tech in Information Technology

Sept 2023 – Expected 2027

CGPA: 8.2 / 10.0

CERTIFICATIONS & ACHIEVEMENTS

- NPTEL Certification – Python for Data Science (IIT/IISc joint initiative)
- Runner-Up, Data Dash Analytics Competition — data cleaning, EDA, and problem-solving using Python (Pandas, NumPy, Matplotlib)
- Hackathon Participation Certificate — collaborative rapid-prototyping and development across hackathons, including SVCE Hackathon
- UiPath Academy Automation Explorer Training — certified foundation in RPA using UiPath
- Tata & Deloitte Australia Job Simulations (Forage, Jun 2025) — Tableau dashboards, Excel-based business analysis