

SIBINESH S

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🔗 [LinkedIn](#) | 🌐 [GitHub](#) | 💻 [LeetCode](#)

PROFESSIONAL SUMMARY

Computer Science Engineering graduate (2026) with hands-on experience in **Python, C++, Flask, FastAPI, REST APIs, SQL, Git, and GitHub**. Experienced in **software development, API development, testing, debugging, and database integration** through backend and full-stack projects. Strong foundation in **Data Structures & Algorithms, OOP, and DBMS**, with **450+ LeetCode problems solved**. Familiar with **Postman-based API testing, error handling, version control, and software development practices**. Seeking an entry-level **Software Engineer** role to contribute to coding, testing, bug fixing, and reliable software delivery.

EDUCATION

B.E., Computer Science and Engineering

2026

Karpagam College of Engineering

CGPA: **7.5/10**

TECHNICAL SKILLS

Programming Languages: Python, C++, C, SQL

Software Development & Backend: Flask, FastAPI, REST APIs, CRUD Operations, JSON, API Integration, Error Handling, Input Validation

Databases: MySQL, SQLite, Database Design, SQL Queries

Testing & Debugging: Postman, API Testing, Functional Testing, Debugging, Bug Fixing, Test Case Execution

Tools & Development Practices: Git, GitHub, VS Code, Version Control, SDLC, Agile, Software Documentation

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Generative AI: Generative AI, LLMs, Gemini API, Prompt Engineering, Pydantic, Streamlit

PROJECTS

AI-Powered Job Description Analyzer

🌐 [GitHub](#) | [Live Demo](#)

Python | Streamlit | Gemini API | Pydantic | Prompt Engineering

- Developed a **Generative AI application** using the **Gemini API** to analyze resumes against job descriptions and generate a **0–100 resume-to-job match score**.
- Engineered a structured LLM pipeline producing **6 validated output fields**: match score, matched skills, missing skills, ATS keywords, resume improvements, and role-specific interview questions.
- Implemented **Pydantic schema validation** and **Prompt Engineering** to standardize LLM responses across **5 recommendation categories** in a single analysis workflow.

Task Manager REST API

🌐 [GitHub](#)

Python | Flask | SQLite | REST APIs | Postman

- Engineered a **CRUD RESTful API** using **Flask** and **SQLite**, implementing **4 core operations**: task creation, retrieval, update, and deletion.
- Secured database operations using **parameterized SQL queries** across user-input queries, preventing SQL injection while adding structured input validation and error handling.
- Validated all **4 CRUD workflows** using **Postman**, covering successful requests, invalid inputs, error scenarios, and edge cases.

Sentinel AI – AI Agent Governance Backend

🌐 [GitHub](#) | [Live Demo](#)

Python | FastAPI | PostgreSQL | SQLAlchemy | Alembic | Pytest

- Developed an **AI Agent Governance Backend** using **Python** and **FastAPI** to monitor AI agent executions, validate runtime behavior, and detect policy violations in real time.
- Built a **policy evaluation and enforcement engine** that validates agent tools, actions, and data sources against predefined behavior profiles, classifies violations by severity, and triggers **human approval or agent suspension**.
- Designed **REST APIs** and a **PostgreSQL** data model using **SQLAlchemy** and **Alembic** to manage agents, behavior profiles, executions, runtime events, and governance findings, with automated testing using **Pytest**.

ACHIEVEMENTS & CERTIFICATIONS

- Competitive Programming:** Secured **2nd place in ORION**, an inter-college competitive coding contest.
- Data Structures & Algorithms:** Solved **450+ technical problems on LeetCode**, strengthening algorithmic problem solving and optimization skills.
- NPTEL National Certification:** Data Structures & Algorithms — Problem Solving through C.
- Technical Certification:** Python Programming Certification — BYTS Services.