

ABHISHEK VISWANATHAN

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Professional Summary

Entry-level Python Backend Developer with hands-on experience building and deploying RESTful APIs using Flask and PostgreSQL. Skilled in designing backend systems with CRUD operations, authentication flows, database modeling, and third-party API integrations. Strong foundation in Python, Object-Oriented Programming, and Data Structures, with exposure to LLM and generative AI concepts. Seeking a Backend Engineer role to contribute to scalable, production-ready applications.

Education

Nehru Institute of Technology <i>Bachelor of Engineering (B.E) in Computer Science and Engineering</i>	Aug 2020 – May 2024 <i>Coimbatore, Tamil Nadu</i>
PMGHSS <i>Higher Secondary Education (12th Grade)</i>	Jun 2018 – Mar 2020 <i>Palakkad, Kerala</i>

Projects

Cafes with WiFi Finder | Python, Flask, REST APIs, PostgreSQL

- Designed and developed a Flask-based backend application to locate Wi-Fi-enabled cafes.
- Implemented RESTful APIs supporting full CRUD operations using Flask and SQLAlchemy ORM.
- Integrated Google Maps API for geolocation, search, and distance-based filtering.
- Designed PostgreSQL database schema and handled environment-based configuration.
- Deployed the application on Render with production-ready settings.

Flask To-Do List Application | Python, Flask, SQLite

- Built a task management backend using Flask following MVC design principles.
- Implemented CRUD functionality with database persistence using SQLite.
- Created reusable templates using server-side rendering with Jinja2.
- Used Git and GitHub for version control and iterative development.

Personal Portfolio Website | HTML, CSS, JavaScript

- Developed a responsive portfolio website to showcase backend projects and skills.
- Implemented clean UI layouts and interactive components using modern CSS.
- Deployed via GitHub Pages and maintained code using Git.

Technical Skills

Languages: Python, SQL, HTML, CSS

Backend Frameworks: Flask, SQLAlchemy

APIs & Backend: REST APIs, CRUD Operations, Authentication (JWT / Session-based)

Databases: PostgreSQL, SQLite

Tools: Git, GitHub, Postman, Render, VS Code

Other: OOP, Data Structures, Unit Testing (PyTest), Linux Basics, Docker (Basic)

Certifications

100 Days of Code: Python Pro Bootcamp – Udemy

- Built 100+ Python projects covering Flask, REST APIs, automation, and data handling.

Generative AI & LLM Engineering – Udemy

- Studied prompt engineering, transformer models, and core LLM concepts.

Python Data Structures & Algorithms + LeetCode Practice – Udemy

- Practiced core DSA topics and solved algorithmic coding problems.