

# Vishal M

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## SUMMARY

Backend Developer with a strong passion for designing and delivering clean, scalable APIs and database-driven applications. Skilled in performance optimization, security, and seamless integration between services. Committed to continuous learning and adapting new technologies to enhance product quality and user experience.

## SKILLS

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

**Backend Development:** Flask, FastAPI, REST APIs, Database Design, API Integration, Microservice Architecture

**Database Management:** PostgreSQL, MongoDB

**Cloud Services:** AWS EC2, S3, IAM, Cloud Watch, Auto Scaling, ELB

**Development Tools:** GitHub, VS Code, Figma (basic), Postman, PgAdmin

**Soft Skills:** Quick Learner, Adaptable, Problem-Solving, Teamwork, Collaboration

## EDUCATION

**B.E** 2024  
Easwari Engineering College, Chennai, **8.36 / 10**

**XII** 2020  
A.V.M Rajeshwari Matriculation Higher Secondary school, Chennai, **73.5%**

**X** 2018  
A.V.M Rajeshwari Matriculation Higher Secondary school, Chennai, **73.2%**

## WORK EXPERIENCE

**RBG Labs - Indian Institute of Technology Madras (IITM)** Sep 2022 - Feb 2023  
Intern Chennai, India

- Developed and implemented **data visualization solutions** and **backend microservice architecture** using the **Flask framework**.
- Collaborated with a multidisciplinary team to design and deploy **map visualization features**.
- Leveraged **MongoDB database technology** for efficient **data storage and retrieval**.

**RBG Labs - Indian Institute of Technology Madras (IITM)** May 2024 - Present  
Project Associate

- Delivered **unique backend projects** ranging from internal tools to live production apps, including an internal Jira-like project management tool.
- Architected and implemented **RESTful APIs from scratch** using Python Flask and PostgreSQL, ensuring scalable and maintainable backend services.
- Designed and optimized **relational database schemas** and crafted complex SQL queries in PgAdmin to improve data retrieval and processing across applications.
- Implemented **robust Access Control Layers (ACLs)** managing 4–5 distinct user roles per application to ensure secure, multi-level permission handling.
- Integrated **APIs with frontend systems** while maintaining high performance and scalability; provided detailed API documentation for seamless collaboration.
- Enhanced **application performance** by optimizing APIs with efficient data structures, reusable functions, and query tuning, significantly reducing response times.
- Collaborated with **cross-functional teams**, contributing to UI/UX discussions and creating wireframes/dashboards in Figma to support product design improvements.

## CERTIFICATIONS

**Python (Basics)**  
HackerRank

**Problem Solving (Basics)**  
HackerRank

**Entrepreneurship Essentials**  
NPTEL-Online Course

**AWS Solutions Architect - Associate (Training Completed ,Certification Exam in Progress)**  
Udemy

PROJECTS

Developer Portfolio & Blog CMS

 [Github URL](#)

Present

Technologies: Flask, PostgreSQL, Streamlit

- Built a personal developer portfolio and blog content management system using Flask, PostgreSQL, and Streamlit for the frontend.
- Implemented user authentication, post creation/editing, and a dashboard for managing blog content.
- Deployed and hosted the application to demonstrate full-stack development and deployment skills.

Student Portal System

 [GitHub URL](#)

Technologies: Flask, PostgreSQL, Docker, AWS

- This is a REST API for a Student Portal. It handles JWT-based authentication, admin/user role-based access control, and CRUD operations for users, tasks, notes, plus combined endpoints for analytics.
- It's designed to be Docker-ready and deployable on AWS EBS/EC2 (optional).

LANGUAGES

Tamil, English, Hindi