

# Mahalakshmi M

Junior Python Developer

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## Professional Summary

Junior Python Developer with strong expertise in **Python, Flask, MySQL, and RESTful API development**. Hands-on experience building and deploying ERP and healthcare applications in production. Skilled in **backend logic, ORM (SQLAlchemy), CRUD operations, database optimization, unit testing (Pytest), version control (Git), and Agile workflows**. Author of a Python programming book with practical exercises and projects.

## Technical Skills

- **Programming:** Python, SQL, JavaScript
- **Frameworks:** Flask, REST APIs, SQLAlchemy
- **Database:** MySQL, Query Optimization, Database Design
- **Frontend:** HTML5, CSS3, Bootstrap
- **Tools:** Git, GitHub, VS Code, Postman
- **Other:** Agile/Scrum, Figma, Adobe XD

## Projects & Experience

### Junior Python Developer

Mar 2025 – Present

V4 Sure IT Solutions, Chennai

- Designed and deployed **ERP modules** (Attendance, Exams, Fee) using Flask and MySQL; implemented authentication and role-based access; deployed live at SDS Polytechnic College.
- Developed a **Pharmacy Management System** that reduced manual workload by 40% and enabled prescriptions, inventory management, and sales tracking.
- Built and optimized **RESTful APIs** improving system performance for 200+ users; integrated APIs with frontend for seamless workflows.

### Python Developer Intern

Feb 2025 – Mar 2025

V4 Sure IT Solutions, Chennai

- Integrated Flask APIs with frontend applications ensuring real-time synchronization.
- Refactored ERP codebase to improve scalability, maintainability, and database query efficiency.
- Conducted **unit testing with Pytest** to reduce bugs and ensure reliable deployments.

### Technical Content Writer Intern

Feb 2024 – Feb 2025

Vidh.ai Innovative Technologies PVT LTD, Coimbatore

- Authored a 250+ page **Python programming book** covering fundamentals to advanced topics with exercises and projects.
- Produced simplified technical content and supporting visuals using Figma and Adobe XD.

### Academic Project: E-commerce Prototype

2023

- Built prototype with catalog, cart, and payment workflow using Flask and MySQL.
- Implemented **CRUD operations**, authentication, and full database integration.

## Education

Year	Institution / Degree	Result
2020–2024	B.Tech in Information Technology, Hindusthan Institute of Technology, Coimbatore	CGPA: 8.8/10
2020	Class XII (Computer Science), Mount Park Hr. Sec. School, Thiyyagadurgam	68%
2018	Class X, Thiruvalluvar Matric Hr. Sec. School, Panruti	88%