

Mahalakshmi M

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LinkedIn — GitHub — Portfolio

Professional Summary

Software Developer with expertise in Python, Flask, MySQL, and RESTful APIs. Experienced in building and deploying ERP and healthcare applications, integrating APIs, and optimizing databases. Skilled in Agile workflows, unit testing, and version control. Author of a Python programming book with hands-on exercises. Passionate about creating scalable, efficient, and maintainable software solutions.

Technical Skills

Languages & Frameworks: Python, Flask, REST APIs, SQLAlchemy, JavaScript, HTML5, CSS3, Bootstrap

Databases: MySQL, Database Design, Query Optimization

Tools & Platforms: Git, GitHub, VS Code, Postman, Figma, Adobe XD

Methodologies: Agile, Scrum, Unit Testing (Pytest)

Work Experience

Junior Python Developer Mar 2025 – Present

V4 Sure IT Solutions, Chennai

- Developed ERP modules (Attendance, Exams, Fee) with Flask and MySQL; deployed at SDS Polytechnic College with role-based authentication.
- Built a Pharmacy Management System reducing manual workload by 40% through digital prescriptions, inventory, and sales tracking.
- Created and optimized REST APIs serving 200+ users, improving system performance and frontend integration.

Python Developer Intern

Feb 2025 – Mar 2025

V4 Sure IT Solutions, Chennai

- Integrated Flask APIs with frontend for real-time synchronization.
- Refactored ERP codebase for scalability and efficiency.
- Conducted Pytest-based unit testing, reducing bugs by 20%.

Technical Content Writer Intern

Feb 2024 – Feb 2025

Vidh.ai Innovative Technologies Pvt. Ltd, Coimbatore

- Authored a 250+ page Python programming book with exercises and projects.
- Produced simplified technical documentation and visuals using Figma and Adobe XD.

Academic Project: E-commerce Prototype

2023

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

Education

B.Tech, Information Technology

2020 – 2024

Hindusthan Institute of Technology, Coimbatore

CGPA: 8.8/10

Class XII (Computer Science)

2020

Mount Park Hr. Sec. School, Thiyyagadurgam

Percentage: 68%

Class X

2018

Thiruvalluvar Matric Hr. Sec. School, Panruti

Percentage: 88%