

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 V4 Sure IT Solutions, Chennai	Mar 2025 – Present
– 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 V4 Sure IT Solutions, Chennai	Feb 2025 – Mar 2025
– 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 Vidh.ai Innovative Technologies Pvt. Ltd, Coimbatore	Feb 2024 – Feb 2025
– 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 Mount Park Hr. Sec. School, Thiyyagadurgam	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 Hindusthan Institute of Technology, Coimbatore CGPA: 8.8/10	2020 – 2024
Class XII (Computer Science) Mount Park Hr. Sec. School, Thiyyagadurgam Percentage: 68%	2020
Class X Thiruvalluvar Matric Hr. Sec. School, Panruti Percentage: 88%	2018