

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 V4 Sure IT Solutions, Chennai	Mar 2025 – Present
• 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 V4 Sure IT Solutions, Chennai	Feb 2025 – Mar 2025
• 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 Vidh.ai Innovative Technologies PVT LTD, Coimbatore	Feb 2024 – Feb 2025
• 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%