Manikandan M

Full-Stack Developer · AI / ML Engineer · Python Developer

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Computer Science Engineering undergraduate building scalable AI-powered applications across full-stack development, automation, and cloud. Comfortable shipping end-to-end with Python, FastAPI, React.js, SQL, and OpenCV — from intelligent automation pipelines and IoT systems to production-minded web products.

EDUCATION

B.E. Computer Science & Engineering
Mahendra Engineering College (Autonomous), Namakkal
2023 – 2027 (Pursuing) · CGPA 8.9 / 10

Higher Secondary
Govt. Hr. Sec. School, A. Pudur, Salem
2022 – 2023 · 83%

TECHNICAL SKILLS

LANGUAGES
Python, Java

WEB & BACKEND
React.js, Node.js, FastAPI, REST APIs, HTML5, CSS3

DATABASES
MySQL, MongoDB

AI / ML
Machine Learning, OpenCV, Pandas, LangGraph, Prompt Engineering

CLOUD & SYSTEMS
Networking, VMware, Red Hat Enterprise Linux, Cloud Platforms

AUTOMATION & TOOLS
UiPath, n8n, Selenium, Git, GitHub, Linux, Claude Code

CERTIFICATIONS

- MongoDB Associate Developer — MongoDB University
- Python Certification — Infosys Springboard
- AI & Machine Learning — IIT Patna (in progress)

RECOGNITION

- Winner — UiPath Build-Your-Own-Agent Challenge
- 2nd Prize — AI Smart Farming Hackathon
- Mentored 200+ students across coding workshops and technical bootcamps

EXPERIENCE

Software Developer Intern (Stipend) — Jun 2026 – Present
Nxelio (USA) · Remote · React.js, Node.js, TypeScript, SQL, REST APIs

- Building an in-house CRM tool end to end — lead and contact management, pipeline stages, and role-based access — on a React.js/TypeScript front end with a Node.js/SQL backend.
- Designing REST APIs and automating repetitive sales-ops workflows to reduce manual data entry for the internal team.

Python Automation Developer Intern — Jun – Aug 2024
Infosys · Python, BeautifulSoup, Selenium, Pandas, SQL

- Scaled scraping coverage from 3 to 15 target domains, harvesting 10,000+ structured records through concurrent-threaded automation pipelines.
- Cut analytics preparation time 30% with schema-validated, Pandas-cleaned SQL datasets.

Salesforce Developer Intern (Virtual) — Jan – Mar 2024
Apex, SOQL, Visualforce, Lightning Web Components, CRM

- Deployed enterprise CRM modules using Apex triggers, Lightning Web Components, and Visualforce pages.
- Reduced manual data-entry effort 45% through workflow automation integration.

PROJECTS

AI Smart Farming System — 2025
Crop Health & Irrigation Automation · Python, OpenCV, FastAPI, SQL, IoT Sensors

- Engineered a crop disease detection pipeline achieving 92% diagnostic accuracy.

Hand Gesture Control System — 2025
Touchless Human Computer Interaction · Python, OpenCV, MediaPipe, PyAutoGUI

- Implemented gesture-based navigation using MediaPipe skeletal landmark tracking at 30+ FPS.
- Enabled touchless control for cursor movement, volume, brightness, and screenshot capture.

AI Coded Agent System — 2024
Autonomous Workflow Reasoner · Python, LangGraph, UiPath SDK

- Designed a multi-step intelligent agent handling workflow orchestration using context-aware tool routing.
- Won the UiPath Build-Your-Own-Agent Challenge for autonomous workflow automation.

Student Management System — 2023
Academic Administration Portal · Java, MySQL, HTML5, CSS3

- Built a role-based academic administration platform supporting attendance, grading, and leave management.
- Reduced administrative workload by 50% while managing 500+ academic records.