HARINI M Python Developer | AI & Backend Engineer

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Professional Profile

Motivated Python Developer and recent Engineering graduate with strong experience in **backend development, AI-powered applications, and cloud deployment**. Proficient in **Python, Django, REST APIs, Linux, and AWS Cloud Operations**. Experienced in developing real-world projects involving computer vision, automation, and secure coding. Currently exploring **financial markets and Python-based trading concepts**. Eager to learn, contribute to cutting-edge projects, and grow in data-driven and trading-focused roles.

Education

BE(ECE), K.L.N College of Engineering   08/2021 – 04/2025
7.6 CGPA

HSC, St.Joseph's Girls Higher Secondary School, Madurai.   06/2020 – 04/2021
87.1%

SSLC, St.Joseph's Girls Higher Secondary School, Madurai.   06/2018 – 03/2019
83.2%

Technical Skills

Programming	**Web & Backend**	**Data & Analysis**	**AI & ML**
Python, C	Django, Flask, REST API, JavaScript, HTML, CSS	NumPy, Pandas	YOLOv9, DeepSORT, Computer Vision, NLP basics, RAG fundamentals
Security		**Database**	
SQLi, XSS, CSRF testing, secure coding	**DevOps & Cloud**	MySQL, SQL	
	Git, GitHub, Linux, Automation scripts,AWS (EC2, S3, IAM, RDS)		

Projects

Smart Vehicle Rental System – Full-Stack Application
- Built a Django-based platform to manage vehicles, rentals, and customers with secure authentication
- Implemented features such as search, filtering, and rental discount automation.
- Enhanced operational efficiency by streamlining workflows and database management.
- Developed RESTful APIs and integrated front-end components with the backend.

Portfolio Website(Django+AWS)
- Designed and deployed a personal portfolio using Django, HTML, and CSS.
- Integrated an admin dashboard for content management and hosted the application on AWS EC2.
- Gained practical experience with cloud deployment, scalability, and API integration.

Real-Time Bird Detection and Tracking System (YOLOv9 + DeepSORT)
- Developed an AI-powered detection and tracking system for live video streams using YOLOv9 and DeepSORT.
- Integrated Django for a user-friendly interface and backend data management.
- Achieved over 90% detection accuracy and automated real-time tracking for agricultural use cases.

JustHear AI – Chrome Extension for Accessibility
- Built a Chrome Extension that reads, translates, summarizes, and proofreads webpage content to assist visually impaired users.
- Integrated Chrome's AI APIs with Gemini API for hybrid online–offline functionality and real-time voice command control.
- Improved accessibility and privacy with fully client-side AI execution using Gemini Nano.

Certifications

- Python Essential Training - LinkedIn Learning
- AWS Cloud Practitioner Essentials – AWS Training & Certification

Professional Experience

Hackup Technology, Web Penetration Testing Intern   Coimbatore
- Conducted web application penetration testing, identifying vulnerabilities (SQLi, XSS, CSRF).
- Developed Python scripts to automate testing and scanning.
- Strengthened knowledge of secure coding practices and debugging.

Publications

Bird Detection in Agricultural Field Using YOLOv9 and DeepSORT – Springer
Presented at *3rd International Conference on Women Researchers in Electronics and Computing* (*WREC'25*), Dr. B. R. Ambedkar NIT, Jalandhar, Punjab.