

HARINI D

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PROFESSIONAL SUMMARY

Software developer with strong foundations in Data Structures and Algorithms and hands-on experience building scalable full-stack and AI-powered applications. Proficient in Python, FastAPI, React, and modern AI technologies including RAG and Agentic AI, with experience in developing modular software solutions.

EDUCATION

Madras Institute of Technology, Anna University, Chennai	Aug 2023 – Present
B.E. Electronics and Communication Engineering	CGPA: 7.21
Santiniketan Matric Hr. Sec. School, Theni	2021 – 2022
Higher Secondary Course	Percentage: 98%

EXPERIENCE

[Credentials](#)

AI & Cloud Virtual Intern | IBM SkillsBuild – Edunet Foundation (AICTE) Aug 2026 – Sep 2026 | [GitHub](#)

- **Built** SAVORIA, an AI recipe agent that generates personalized, context-aware recipes and meal plans based on user preferences and available ingredients.
- **Implemented** semantic ingredient search, personalized recommendations, and interactive meal-planning workflows to deliver tailored recipe experiences.
- **Engineered** AI-powered applications using Generative AI, prompt engineering, RAG, Agentic AI, and IBM Cloud technologies through project-based development.
- **Tech Stack:** React, FastAPI, FAISS, Sentence Transformers, IBM watsonx.ai, IBM Cloud

PROJECTS

AI-BASED LANE DETECTION — Deep Learning Lane Segmentation Jul 2026 – Present | [GitHub](#)

- **Developed** a PyTorch-based lane segmentation pipeline by integrating CULane and IDD datasets with U-Net, VGG16, SAM, and attention-based architectures
- **Evaluating** pixel-level lane segmentation performance using IoU, Dice Score, Precision, Recall, and F1-score while comparing multiple architectures
- **Tech Stack:** Python, PyTorch, U-Net, VGG16, SAM, Coordinate Attention

ASK&ACT — Agentic AI Platform Apr 2026 – Jun 2026 | [GitHub](#)

- **Developed** a modular Agentic AI platform using LangGraph to orchestrate specialized workflows for code review, market intelligence, and YouTube analysis.
- **Integrated** FastAPI, React, and local LLMs to build modular multi-agent workflows with specialized task routing.
- **Tech Stack:** Python, React, FastAPI, LangGraph, LangChain, Ollama (Qwen2.5 7B), yfinance

CLIP&CODE — Multimodal UI-to-Code Engine May 2025 – Jul 2025 | [GitHub](#)

- **Developed** a multimodal vision-to-code engine that analyzes UI screenshots and generates reusable React components using local AI models.
- **Integrated** FastAPI, React, TypeScript, and a VS Code extension for automated screenshot processing and code generation.
- **Tech Stack:** React, TypeScript, FastAPI, Ollama (Qwen2.5-VL 3B, Qwen2.5-Coder 7B), VS Code Extension API

ARCHIVA — Academic Record Manager Jul 2024 – Aug 2024 | [GitHub](#) — [LIVE](#)

- **Developed** a browser-based academic management system for GPA/CGPA calculation, grade tracking, and arrear monitoring, used by **100+ ECE students**.
- **Implemented** client-side validation, semester-wise processing, PDF report generation, data persistence, and result sharing.
- **Tech Stack:** React, JavaScript, HTML, CSS, PDF.js, html2canvas

SKILLS

- **Languages:** Python, JavaScript, TypeScript, SQL
- **Core CS & Tools:** DSA, OOPS, Agile, Git, GitHub, DBMS, Computer Networks, OS, LLD
- **Frontend:** HTML, CSS, React
- **Backend & Cloud:** FastAPI, REST APIs, IBM Cloud
- **AI Technologies:** LLMs, RAG, Agentic AI, LangChain, LangGraph, Ollama, FAISS, IBM watsonx.ai

ACHIEVEMENTS & ACTIVITIES

[Credentials](#)

- **Problem Solving:** Solved **250+ problems** on LeetCode across Data Structures, Algorithms, and SQL.
- **Hackathon:** Built an offline-first educational platform with an LCD & 4-button device, React frontend, cloud sync, and performance analytics at the SRM & BU Soft **24-Hour Hackathon**.
- **Certifications:** OCI Agentic AI Foundations Associate (Oracle), Full Stack Development, Cloud computing and DevOps Tools (Simplilearn), Cybersecurity (Cisco), Walmart Global Tech Software Engineering Job Simulation (Forage).
- Member of **QUANTuMIT, TEDC, & YRC (MIT)** and contributed to technical sessions, event logistics, and project execution; supported visually impaired students as an exam scribe, providing accessible examination assistance.