

DHANUSH M

Full Stack Developer · Python (Django / Flask) · MERN Stack · React Native · AI Systems

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PROFESSIONAL SUMMARY

Full Stack Developer specializing in production-grade **Python (Django / Flask)**, **MERN stack**, and **React Native** systems. Proven expertise in engineering **enterprise RBAC governance**, high-volume **POS & order management pipelines**, Google Maps geofencing, automated billing engines, and **LLM / voice-assisted digital concierge platforms**. Strong foundation in **DSA, OOP, and secure REST API architectures** built to deliver scalable performance for IT engineering roles.

TECHNICAL SKILLS

Languages	Python, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
Backend & Frameworks	Python (Django, Flask, FastAPI), Node.js, Express.js, RESTful APIs, JWT Authentication, RBAC Architecture
Frontend & Mobile	React.js, React Native, Redux Toolkit, Context API, Tailwind CSS, Material UI, Responsive Design
Databases	MySQL, PostgreSQL, MongoDB (Mongoose ODM, Aggregations), SQLite, Query Optimization
APIs & Integrations	Google Maps Distance Matrix API, LLM (Gemini / OpenAI), Edge-TTS & Voice Synthesis, POS Billing Engines
Core Competencies	Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), System Architecture, Application Security
CMS & DevOps	WordPress (Custom Themes, Plugins, REST API), Git, GitHub, Postman, Vercel, Render, CI/CD, Agile/Scrum

WORK EXPERIENCE

Software Developer — Full Stack & Mobile

August 2026 – Present

Harvee Technologies · Bengaluru, India

- Architect and deploy **full-stack web and mobile applications** using MERN and React Native (including **RxDx Medical CME Platform** and **ZureSmile Practice Portal**), serving **500+ active users**.
- Engineer **secure Node.js/Express REST APIs** with JWT authentication, refresh token rotation, and role-based access control (RBAC) for multi-tenant platforms.
- Optimize **MongoDB aggregation pipelines** and compound indexing strategies, reducing query response times by **over 30%** and improving dashboard load performance.
- Build custom **WordPress CMS infrastructures** with ACF and plugin architectures, reducing editorial turnaround by **40%**; collaborate in Agile/Scrum sprints with Git-based code reviews.

Python & Backend Developer Intern

2025 – 2026

PySpiders · Bengaluru, India

- Built and tested **RESTful web APIs** using Python and the Flask framework, handling request routing, data validation, and SQL database integration.
- Applied core **Data Structures & Algorithms (DSA)** and Object-Oriented Programming (OOP) concepts to optimize execution time, memory usage, and logic workflows.
- Developed modular, maintainable code following **PEP 8 standards** and utilized Git for version control and branch management.

FEATURED PROJECTS

GoSouthIndia — AI Cultural Tourism & Digital Concierge Platform

[GitHub](#)

Python, Django, FastAPI, Google Gemini LLM, RAG Pipeline, Edge-TTS, Web Speech API, Vanilla JS, PostgreSQL, RBAC Architecture

- Engineered an AI-driven cultural tourism platform featuring a conversational **LLM digital concierge** and domain-grounded **RAG pipeline** to deliver real-time architectural insights and heritage exploration across UNESCO sites.
- Integrated **Edge-TTS and browser Web Speech APIs** for high-fidelity multilingual voice reading and speech synthesis, enabling interactive, hands-free guided audio tours with customizable speech modulation.
- Architected an enterprise **Role-Based Access Control (RBAC)** governance dashboard featuring granular admin permission hierarchies, live booking telemetry, credential management, and an **Application Lockdown security toggle**.
- Implemented a client-side **dynamic multi-currency calculation engine (USD / INR)** with real-time conversion rates and automated tariff calculations, complemented by an emergency **24/7 Foreigner Safety Shield** with live GPS location telemetry.

Ganesha Restaurant (OmniServe) — POS & Order Management Platform

[GitHub](#)

Python, Django, MySQL, Google Maps Distance Matrix API, AJAX, JavaScript, Relational Database Modeling

- Engineered a full-stack **restaurant POS and order management web application** using **Python (Django)** and **MySQL**, handling high-volume online food ordering, menu customization, and table reservations.
- Integrated **Google Maps Geocoding & Distance Matrix APIs** to enforce **geofenced delivery radius limitations**, validating customer coordinates and computing distance-tiered delivery charges.
- Architected an event-driven **live order management & POS workflow using AJAX polling**, persistent kitchen audio alerts, and real-time state transitions (Received → Confirmed → Kitchen → Dispatched), cutting order turnaround time by **35%**.
- Built an automated **billing & invoicing engine** featuring dynamic promo code validation, itemized subtotal calculations, service charge algorithms, and transactional data integrity via **MySQL ACID compliance**.

EDUCATION

Bachelor of Engineering (B.E.) — Computer Science & Engineering, Honours in Cyber Security

2022 – 2026

Hindusthan Institute of Technology, Coimbatore, Tamil Nadu · CGPA: 8.12

CERTIFICATIONS & TRAINING

- **HCL GUVI** — Certified in Data Structures & Algorithms (DSA) and Flask Web Framework Development, covering algorithmic problem-solving, Python backend engineering, and RESTful API design

ADDITIONAL

- **Competitive Chess Player & Coach** — Train young minds in tactical visualization and strategic planning; skills reinforcing systematic software architecture and debugging.
- **Open Source Contributor** — Maintain and publish developer tools and utility libraries on GitHub.