

DARSHAN C S

Full Stack Developer & AI Engineer

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PROFESSIONAL SUMMARY

Pre-final-year B.Tech AI & Data Science student (CGPA 8.6/10) and Full Stack Developer & AI Engineer with internships in front-end development, SEO and generative-AI content, plus an **AI summer internship at FH Aachen, Germany**. Building **end-to-end products** with React, Django REST, PostgreSQL/Supabase and ML/LLM integration. **2× SIH internal-round winner**; Smart Ability Hackathon 2026 winner.

EDUCATION

Rajalakshmi Engineering College, Anna University — B.Tech Artificial Intelligence & Data Science | CGPA 8.6 / 10 2024 – 2028

MCC Campus School, Chennai — Class XII: 93.0% | Class X: 96.6% 2024

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, TypeScript, SQL

Frontend: React, HTML5, CSS3, Bootstrap

Backend & APIs: Django, Django REST Framework, REST API design, JWT authentication, Django Channels (WebSockets), Meta WhatsApp Cloud API

Databases: PostgreSQL, PostGIS, MySQL, MongoDB, SQLite, Supabase (Postgres, Storage)

AI / ML: Machine Learning, NLP, LLM Integration (Groq, OpenAI-compatible APIs), Prompt Engineering, NumPy, pandas, Deep Neural Networks, Reinforcement Learning

DevOps, Testing & Tools: Docker, Git, GitHub, Render, Vercel, Cloudflare Workers, VS Code Extension API

EXPERIENCE

NIEPMD, Chennai | Full Stack Developer & AI Engineer 2026 – Present

- Developing EchoSense AI — an AI-based tinnitus assessment, sound-therapy and doctor-consultation platform (winner, Smart Ability Hackathon 2026) — now under deployment at **NIEPMD** (National Institute for Empowerment of Persons with Multiple Disabilities) by **Govt. of India**.
- Built the React + TypeScript front end (interactive 3D ear viewer, clinical audiogram, in-browser sound therapy) and the Django REST backend with JWT auth, clinical-data interoperability and an ML prediction engine across seven modules; deployed on Render.

Kuttykoncepts (via Rajalakshmi Engineering College) | **Generative AI & Prompt Engineering Intern** Jun 2026 – Present

- Producing AI-generated study materials — concepts to scripts, AI avatars and fully AI-generated videos — via prompt engineering.

Gocourse Pvt Ltd | SEO Intern (2026 – Present) · **Front End Developer Intern** (Dec 2025 – Feb 2026)

- Built the Gocourse books website front end in React, HTML and CSS; now handling its on-page SEO (keywords, metadata, content).

MASCOR Institute, FH Aachen University of Applied Sciences, Germany | CyberSol International Summer Intern Jun 2026

- 4-week immersion + internship (2 weeks online, 2 on-site in **Aachen, Stuttgart and Frankfurt**) on **Deep Reinforcement Learning, Neural Networks**, Sim-to-Real and Cognitive Robotics, organised by IndoEuroSync — graded 4.75/5 (95%).

PROJECTS

TwinCode — NAMASTE ↔ ICD-11 Dual-Coding Microservice (Smart India Hackathon 2025) | *TypeScript · PostgreSQL · React · NLP · JWT*

- MVP microservice dual-coding India's NAMASTE traditional-medicine codes with WHO ICD-11 for interoperable EMRs; as developer & data analyst, built data normalisation, NLP semantic mapping/autocorrect, a code-explanation engine and JWT-secured ABHA consent.

SEVPS — Smart Emergency Vehicle Priority System | *Django · DRF · Django Channels · PostgreSQL/PostGIS · React · Docker*

- Real-time platform giving ambulances traffic-signal priority, fastest routing over PostGIS spatial data and live hospital readiness tracking; admin/driver/paramedic/hospital dashboards with WebSocket live updates, push notifications and explainable ML estimators.

SHN — Self-Healing Network | *React · Django REST · Django Channels · PostgreSQL · Docker*

- Observe → detect → diagnose → heal → summarise loop for network failures: background ticks reroute traffic via graph shortest paths, live telemetry streams over WebSockets to a topology dashboard and operator portal, and a template/LLM layer explains incidents.

PUC — Programming Using C Learning Platform | *JavaScript · Supabase · Cloudflare Workers · VS Code Extension API*

- C-learning platform (microlearning, tests, progress tracking) for college students, shipped as PWA, Windows .exe and Android .apk plus a TypeScript VS Code extension for in-editor practice; Supabase Postgres/serverless backend with session auth on Cloudflare Workers.

Academic WDB — WhatsApp-Based Academic Resource Bot | *Django REST · React · TypeScript · Supabase · Meta WhatsApp Cloud API · Docker*

- Students message a WhatsApp number and instantly receive notes, videos and reference links for any subject/semester/department; regex-first intent matching with Groq LLM fallback, JWT-secured DRF API, Supabase Postgres + Storage, React admin panel; Dockerised.

PsychologyAI — AI/ML Mental-Health Companion | *Python · Django · Machine Learning · Groq LLM · Bootstrap*

- Mental-health companion with PHQ-9/BDI questionnaires, rehabilitation guidance, doctor consultation and an LLM-powered chat companion; trained a PHQ-9 text classifier for depression-severity analysis (paper in preparation); deployed on Render and Vercel.

ACHIEVEMENTS

- 2× Winner - Smart India Hackathon Internal Round** by Govt. of India. **Winner - Smart Ability Hackathon 2026** (REC × NIEPMD)
- AI NEXUS 2026** - presented internship work at the AI Innovators Expo to Dr. Kumar R, Hon'ble Minister for AI & IT, Tamil Nadu.
- Speaker** - Hackathon Awareness Session 2026 (guest speaker, Dept. of AI & DS, REC) · **Organizer & Speaker** - TechSavvy 2026 (lead & sole speaker, MCC workshop on Python & HTML/CSS).

CERTIFICATIONS

- Livewire - Master Certificate in Software Development** (C, C++, Python, Java), 2025 · **Web Designing**, 2026 · **Django Framework**, 2026
- CyberSol International Summer Internship** - MASCOR Institute, FH Aachen University of Applied Sciences, **Germany**, 2026