

DASAPATHI INDRA KUMAR

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[LinkedIn](#) — [GitHub](#) — [LeetCode](#) — [Portfolio](#)

Education

B.Tech — Computer Science and Engineering (AI)

CGPA: 8.54/10

IIITDM Kancheepuram, Tamil Nadu

2023–2027

Technical Skills

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

Frameworks & Databases: Node.js, Express.js, React.js, Next.js, MongoDB, MySQL, Postman

ML & CS Fundamentals: Machine Learning, Data Structures and Algorithms, OOPs, DBMS, OS

Experience

Backend Development Intern — PearlThoughts

Sep 2025–Oct 2025

Chennai, India

[Internship Certificate](#)

- Designed and deployed **12+ REST APIs** using **Node.js** and **Express** with validation and error handling, improving API success rate from **78%–98%**.
- Optimized **MongoDB schemas** and implemented **indexing strategies**, reducing query latency by **30%** on high-traffic routes.
- Enforced **JWT-based authentication** and **role-based access control (RBAC)** to strengthen backend security.

Projects

CodeSync Pro — *Next.js 15, TypeScript, MongoDB*

[GitHub](#) — [Live](#)

- Architected a centralized platform to unify **LeetCode**, **Codeforces**, and **global hackathons** into a single workflow.
- Engineered a high-performance aggregation engine using **Next.js** to synchronize contest schedules.
- Implemented a **LeetCode social search** feature and a **smart editorial system** linking contests with solutions.

Real-Time Video Calling App — *React, Node.js, WebRTC, Stream SDK*

[GitHub](#) — [Live](#)

- Built a low-latency **WebRTC** application supporting **one-to-one video calls** with encrypted messaging.
- Configured **STUN/TURN servers** to ensure reliable peer-to-peer connectivity across **NAT/firewalls**.

Medical Imaging Analysis Engine — *Python, PyTorch, Scikit-Learn*

[GitHub](#) — [Live](#)

- Engineered an end-to-end medical imaging pipeline comparing ML and DL models for chest X-ray pathology detection.
- Achieved up to **95% AUC** on critical conditions and deployed a **Streamlit** application for real-time inference.

AgriYield Predictor — *Python, Scikit-Learn, XGBoost*

[GitHub](#) — [Live](#)

- Developed an ML platform for crop yield forecasting as part of the **Infosys Springboard AI Project**.
- Achieved a **91% R² score** using soil nutrient and climate data with a modular architecture.

Achievements

- LeetCode contest rating of **1810** (Top **7.24%** globally); solved over **500** data structures and algorithms problems across multiple platforms.
- Amazon ML Challenge 2025:** Secured **AIR 63** among 80,000+ teams.
- OpenAI Academy x NxtWave Buildathon 2025:** Selected for **Tamil Nadu State-Level Buildathon**.
- GirlScript Summer of Code 2025:** Contributor to **three MERN open-source projects**.

Leadership & Contributions

Core Member — Competitive Programming Club, IIITDM Kancheepuram

2024–Present

- Conducted **DSA workshops** and coding contests for **150+ students** and mentored **25+ juniors**.

Placement Cell Volunteer, IIITDM Kancheepuram

2024–2025

- Coordinated campus recruitment drives and student–HR communication during placements.

Certifications

[Link](#)

- Complete Web Development Course — Udemy
- Postman API Fundamentals — Student Expert (Postman Academy)
- Artificial Intelligence — Infosys Springboard