

DINESH BABU

Chennai, Tamil Nadu

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EDUCATION

St. Joseph's College of Engineering

B.Tech in Artificial Intelligence & Data Science

CGPA: 8.84 / 10.0

Chennai, India

2023 – 2027

TECHNICAL SKILLS

Problem Solving: LeetCode (300+ Solved), Codeforces (Max Rating: 1175)

Languages: Java, PHP, C++, Python, SQL

Frameworks & Libraries: Laravel, Tailwind CSS, Apache Lucene

Tools & Systems: Git, Docker, Linux, Apache

EXPERIENCE

VATSIM (Virtual Air Traffic Simulation Network)

Remote

Backend Developer (Freelance)

Jan 2025 – Present

- Built "SEA-TEST," an exam platform for 500+ users, replacing a legacy system to reduce hosting costs.
- Implemented secure Single Sign-On (SSO) via OAuth 2.0 to integrate with VATSIM's central ID server.
- Enforced Role-Based Access Control (RBAC) to restrict features for Admins vs Students.
- Deployed the Laravel backend on a Linux production server (VPS) via SSH.

TANSAM Center of Excellence

Chennai, India

Full Stack Developer Intern

Jun 2025 – Jul 2025

- Developed a Content Management System (CMS) using PHP/Laravel.
- Created REST APIs to send JSON data to the organization's existing Angular frontend.
- Configured the deployment environment on a Linux server.

Prodapt

Guindy, India

AI Intern

Jul 2024 – Aug 2024

- Assisted in the testing and validation of an AI customer support chatbot.
- Analyzed user conversation logs to identify errors in the bot's responses.
- Collaborated with the engineering team to improve data quality for the model.

ACADEMIC PROJECT

Search Engine Implementation (*Source Code*)

Java, Apache Lucene

- Developing a search tool to index and retrieve web pages from a seed list of URLs.
- Integrating the Apache Lucene library to handle text indexing and keyword search.
- Implemented a command-line interface to input queries and display relevant URLs.

CERTIFICATIONS & COMPETITIONS

- **ICPC India 2025:** Secured Rank 1800 in the Preliminary Round.
- **HackerRank Verified Skill:** REST API (Intermediate).
- **NPTEL:** Certification in Data Structures and Algorithms and Programming in C++.
- **Cisco Networking Academy:** Certification in Computer Networks.
- **NIT Coding Contest:** Participant in AlgoUtsav 2026, a national-level programming hackathon.