

VAITHIYANATHAN T

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EDUCATION

Bachelor of Engineering - Computer Science and Engineering
Chennai Institute of Technology, Kundrathur, Chennai

2022 – 2026
CGPA: 9.38 / 10

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER | Zoho Corporation (On-site) Feb 2026 – Present

- Built large-scale web scraping and data enrichment pipelines powering data intelligence for Zoho CRM and SalesIQ. Chennai
- Implemented ML and LLM-based pipelines to convert unstructured web content into structured company data.

WEB DEVELOPMENT INTERN | Mistral Solutions India Private Limited (On-site) May 2024 – Jun 2024

- Redesigned company portfolio using Next.js, Tailwind CSS, and Node.js, developing **3,000+** lines of code. Chennai, India
- Enhanced engagement by **20%** (Google Analytics) and optimized load time by **15%** (Google Lighthouse).

FULL STACK DEVELOPER INTERN | Sysmedac Technologies India Private Limited (On-site) Nov 2023 – Dec 2023

- Modified and redesigned the UI for the client's website and satisfied **100%** of their requirements. Chennai, India
- Coordinated with a team of **4** developers using Git to engineer a website with React.js and Material UI.

PROJECTS

INVENTORY MANAGEMENT WITH GEN-AI AUTOMATION | Angular.ts, FastAPI, LangGraph, Tailwind CSS, PostgreSQL

- Enabled supplier negotiations through **voice and email modes** using Gen-AI workflows orchestrated with LangGraph.
- Used Gen-AI to study historical supplier conversations and suggest context-aware negotiation approaches.
- Triggered automated purchase orders driven by inventory thresholds and demand predictions.

CONFIDENTIAL ENTERPRISE RAG | React, TypeScript, Python, FastAPI, LangGraph, Gemini API, Pinecone, PostgreSQL

- Built a confidential RAG-based AI platform ensuring secure, context-aware responses with tokenized sensitive data handling.
- Enabled role- and clearance-aware query handling with controlled retrieval, redaction, and secure response generation.
- Enforced prompt injection protection and risk-based policies to ensure GDPR compliance and secure sensitive PII and PCI data.

QUESTION PAPER GENERATION SYSTEM – React.js, Tailwind CSS, Database-Firebase, Gemini model

- Developed application for our college that automates Word-to-question-paper conversion, reduced prep time by **50%**.
- Elevated question quality for **7,000+** students while reducing **1,000+** faculty workload and enhancing academic standards.
- Integrated Google GenAI API using Gemini 2.0 Flash to generate high-quality, diverse, and context-aware questions.

REAL-TIME NOC MANAGEMENT SYSTEM | React.js, Node.js, Twilio, Firebase, YOLO

- Built an AI-driven platform automating assessments, submissions, and NOC tracking with SMS alerts.
- Managed state and side effects using React Hooks and implemented protected routes for secure, role-based access.
- Accelerated NOC issuance by **70%** via AI scoring and automated face/geolocation workflows.

TECHNICAL SKILLS

Languages:	Frameworks:	Technologies:	Databases:	Developer Tools:	Other Libraries:
- Python - Java - C & C++ - JavaScript	- React.js - Next.js - Node.js - Express.js	- HTML & CSS - TypeScript - Tailwind CSS - React Native	- AWS Cloud - MySQL - PostgreSQL - MongoDB	- Postman - Git & GitHub - Linux - Selenium	- RESTful APIs - Hugging Face - FastAPI - GraphQL APIs

CERTIFICATIONS

- AWS Cloud Practitioner**
- Google Python Course**
- Linux Administration**
- Git & GitHub Essentials**
- Back-End Development**
- Front-End Specialization**
- Meta Advanced React**
- Meta Version Control**

ACHIEVEMENTS

- SMART INDIA HACKATHON 2025** — Built a satellite-based application to detect and report illegal mining activities.
- SMART INDIA HACKATHON 2024** — Led a team to build a real-time fire safety NOC website for the Government of Delhi.
- HACK4CHANGE 2024** — Top 40 of 1000+ teams for a real-time smart analytics and irrigation control system (Google).
- TERRA TECH HACKATHON** — Top 10 of 100+ teams for developing a Crop Analysis GIS Platform (IIT Bangalore).

COMPETITIVE PROGRAMMING

- LeetCode**: Max Rating **1,930** (Knight level), Top **4.97%** Globally, solved **770+** problems, **11** badges, best contest rank **487**.
- CodeChef**: Max Rating **1,530**, Div 3, Two Stars coder, best contest rank **288**, Global Rank **27,998**, Country Rank **25,165**.
- Codeforces**: Attained a peak rating of **905** with a best contest rank of **9,777**.
- TCS CodeVita 2024**: Rank **538** out of **440,000+** participants (Top **0.12%**), notably achieving Top **3** in our institution.

VOLUNTEERING

- Organized mock tests for **1,000+** GATE aspirants on our platform, accurately evaluating top performers in our college.