

## TANMAY AGGARWAL

Software Developer | Full-Stack Engineer

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### Professional Summary

Computer Science student at MAIT building production-ready full-stack and mobile applications using **TypeScript, React, React Native, Node.js, and MongoDB**. I'm actively expanding into **machine learning and blockchain**, exploring how intelligent systems and decentralized architectures can shape the next generation of software.

Passionate about continuous growth, I treat learning as a daily practice. Constantly experimenting, building, and sharpening my problem-solving skills

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### Education

#### Bachelor of Technology in Computer Science & Engineering

(2024 – 2028)

Maharaja Agarsen Institute of Technology , New Delhi, India

**CGPA: 9.1/10** (First Year)

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### Technical Expertise:

**Frontend Development :** React.js , Next.js ,Tailwind CSS ,React Native (Expo),NativeWind, DaisyUI, Shadcn/UI,

**Backend Development:** Node.js , Express.js ,RESTful APIs ,Socket.IO , OAuth 2.0

**Database & Cloud:** MongoDB, PostgreSQL,Database Design , Vercel Deployment, Docker

**Tools & Technologies :** Zustand (State Management) , Appwrite , Git/GitHub

**Machine Learning Tools and Libraries:** Scikit-learn, Pytorch, TensorFlow

**Blockchain:** Ethereum, Solana, Hardhat, Wagmi, Viem

**Languages:** C/C++ , Python, Java, Typescript, JavaScript (ES6+)

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### Project Portfolio:

#### Mentora – AI-Powered Personalized Learning Platform

**Technologies:** NEXT.js, Typescript, Heygen API, Node.js,Shadcn

Developed an AI-driven learning platform that generates dynamic curricula and adaptive learning paths based on user progress. Implemented AI mentor personas with distinct teaching styles and integrated AI-generated interactive video lessons using the HeyGen API to enhance engagement and retention.

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#### Nexis – QR-Based File Sharing Application | React Native Project (August 2025)

**Technologies:** React Native, Expo, Zustand, Appwrite, React

Developed a cross-platform mobile app as well as a web app enabling instant file sharing through QR code scanning, removing the need for complex setup or login

Implemented an intuitive send/receive flow with efficient state management using Zustand

Focused on speed, security, and a seamless user experience for peer-to-peer file transfers

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#### LumaLife- Personalized Health Intelligence App

**Technologies:** React Native, Expo, Health connect, ,Node.js, MongoDB, Gemini-3 API

LumaLife is a comprehensive mobile application designed to empower individuals with actionable insights into their health and well-being. By integrating diverse health data and leveraging advanced AI analysis, LumaLife helps users understand their current health status, identify trends, and make informed decisions for a healthier future

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### Experience:

#### Open Source Contributor

GirlScript Summer of Code (GSSoC) & Social Winter of Code (SWoC)

#### Jan 2025 – Aug 2025

Contributed to multiple GitHub repositories focused on frontend and full-stack web development

Worked on production-level features including landing pages, component design, and bug fixes

Great control and understanding to Git/Github commands

Collaborated with maintainers and fellow contributors via GitHub Issues, PR reviews, and Discord channels

Gained practical experience in version control, open-source workflow, and scalable code practices.