

Kavin Mohan

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EDUCATION

Kumaraguru College of Technology

Bachelor's Of Engineering in Computer Science

Tamil Nadu, India

Sep 2023 – Expected Sept 2027 CGPA: 8.43

EXPERIENCE

Software Engineer Intern

KavKrish Apps (Virtual Trading 2.0)

Present

Remote

- Spearheaded full-stack development for **Virtual Trading 2.0**, a live stock market simulator on the Play Store with over **2 Million+ downloads** and a **4.3-star rating**.
- Migrated the codebase to **Expo React Native** to improve cross-platform performance and engineered a **CI/CD pipeline**, reducing build-to-deployment time by **95%**.
- Optimized backend architecture to handle **real-time stock data feeds** and scalable user authentication, ensuring low-latency performance for a massive active user base.

Software Engineer Intern

Smart Stream Technologies

Jun 2025 – July 2025

Coimbatore, India

- Designed and launched a mobile-first, responsive account dashboard for NRL.com using Tailwind CSS and Next.js, improving UI consistency and scalability for a site serving 10M+ monthly users.
- Collaborated with a senior mentor to define project scope, incorporating feedback from design discussions to improve system reliability and user experience.
- Delivered the full project from design to production in 2 weeks, accelerating feature deployment by 200% and ensuring seamless performance across all devices.

PROJECTS

Stackly | Next.js, FastAPI, MongoDB, Google Gemini API, FSRs

Aug 2025 – Oct 2025

- Developed an AI-powered learning platform that automates flashcard generation from PDF course materials using the **Google Gemini API**, reducing manual study preparation time by **60%**.
- Implemented the **Free Spaced Repetition Scheduler (FSRS)** algorithm in a **FastAPI** backend to dynamically calculate optimal review intervals, targeting a **90% knowledge retention rate**.
- Designed a scalable **MongoDB** schema to track user performance metrics (stability, difficulty, retrievability) and integrated a **Next.js** frontend for a seamless, responsive user experience.

InternSpot | React, FastAPI, SciPy | GitHub

Jan 2025 – Feb 2025

- Built a full-stack internship portal with **React** and **FastAPI**, featuring distinct dashboards for recruiters and students.
- Implemented a recommendation engine using **SciPy** for vector-based skill matching and an NLP-based resume parser.
- Deployed RESTful APIs to handle authentication and real-time data processing for student applications.

SKILLS

Languages: JavaScript (ES6+), Python, TypeScript, Java, C/C++, SQL, HTML5/CSS3

Frontend: React.js, Next.js, Angular, Tailwind CSS, Responsive Design, State Management

Backend: Python (FastAPI), Node.js, RESTful APIs, Microservices, Pydantic, Authentication (JWT)

Databases: MongoDB (NoSQL), PostgreSQL, Vector Databases (ChromaDB/Pinecone)

AI/ML: LangChain, Google GenAI SDK, RAG, Prompt Engineering, Zero-Shot Learning, NLP, SciPy

DevOps & Tools: Git, Docker, CI/CD, Linux, VS Code, Postman, Vercel