MAHAVEER K

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EDUCATION

B.Tech IT - Sri Eshwar College of Engineering	CGPA – 7.81	2023 - 2027
HSC - Palaniyammal Higher Secondary School	84.6%	2022 - 2023
SSLC - Palaniyammal Higher Secondary School	Completed	2021 - 2022

EXPERIENCE

INTERNSHIP at **Better Tomorrow** | Feb 2025 – Mar 2025 | Internship Certificate

Built an intelligent note-taking web application using the **MERN** stack with AI-driven summarization and dynamic schedule generation powered by **OpenAI APIs**. Enabled users to create, edit, and manage personalized schedules for enhanced productivity. Deployed the frontend on Vercel and the backend on Render.com, ensuring seamless performance and scalability.

PROJECTS

Geo-Guardian | Live Link | GitHub

- Built a real-time **MERN & Flutter geofencing system** to monitor tourist locations and prevent accidents in hazardous areas.
- Engineered a **React & Leaflet.js** admin dashboard enabling authorities to draw custom polygonal danger zones on satellite maps.
- Leveraged **MongoDB 2dsphere indexing** ($geoIntersects) instantly detect when a user's live GPS crosses restricted boundaries.
- Implemented **Socket.io** for sub-second bi-directional alerts, instantly warning both mobile users and the central admin portal.
- Accelerated mobile sync speeds using **in-memory caching** for geospatial zone data, decreasing database query load and cutting API response times.

Note Mate | Live Link | GitHub

- Built **Note Mate**, a **MERN stack** productivity web app with intelligent note-taking and an **AI-powered** daily planner.
- Features include movable sticky notes, **speech-to-text input**, personalized reminders, and AI-generated schedules.
- Supports theme and language preferences, offering a customizable and organized task management experience.

PDF Flow | Live Link | GitHub

- Built **PDF Flow**, a file conversion platform using **Next.js, React, and Tailwind CSS**, supporting **DOCX, PPT, XLSX, image-to-PDF** conversion, and PDF merging.
- Developed reusable workflows, responsive UI components, and optimized file handling for fast processing and seamless user experience.
- Implemented PDF processing using **pdf-lib** with modular routing and scalable frontend architecture for production-ready performance.

SKILLS

- Programming Languages – C++, JavaScript
- Web – HTML, CSS, REST API
- Tools – VS Code, Android Studio, Postman
- Framework/Library – Flutter, React, NodeJS, Next.JS
- Database – Firebase, MongoDB
- CI/CD – Git & GitHub, Jenkins
- Core – DSA, DBMS

ACHIEVEMENTS

- Leetcode – Problems solved 200+, profile
- Freshothon (Hackathon) – Secured third place
- Hackastrom'25 (36-hour Hackathon) – Secured second place
- Project Expo – Secured third place

CERTIFICATIONS

- MongoDB Certified Associate Developer↗(link)
- AWS Certified Cloud Practitioner↗(link)
- Data Structures and Algorithms (Udemy) ↗(link)