

Karan Manickam

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Academic Qualifications

KSR Institute for Engineering and Technology, Namakkal 2022 – 2026
Bachelor of Engineering (B.E.) in Computer Science **CGPA: 8.8/10**

Nirmala Matha Convent Higher Secondary School, Perundurai 2019 – 2022
SSLC (2019–2020): **87%**, HSC (2021–2022): **70%**

Experience

Cube AI Solution, Namakkal Dec 2024 – Feb 2025
Frontend Developer Intern | React, Tailwind CSS, JavaScript, RESTful APIs

- Developed **3+ responsive web applications** with a mobile-first approach and efficient **user-friendly** interface.
- Reduced page load time by **30%** and ensured seamless cross-browser performance across **4+ major browsers**, and built modular and scalable UI components to increase code reusability and **integrated RESTful APIs**.

OctaNet Services Pvt. Ltd., Chennai (Remote) Jan 2024 – Mar 2024
Full-Stack Developer Intern | MERN Stack, Git/GitHub

- Built and implemented **RESTful API endpoints** in Node.js/Express to enable client-server communication.
- Implemented scalable cloud-storage with secure **JWT-based authentication** for reliable access control.

Projects

Interview Preparation AI [Link](#)

- Developed a MERN stack platform to streamline interview preparation, featuring **integrated DSA sheets**. The application includes AI-generated interview and aptitude questions with secure JWT authentication. Integrated **Gemini-powered** AI assistant, code compiler, and deployed the platform on Render.
- Technologies:** React.js, Express.js, MongoDB, Tailwind CSS, Render, Google Gemini API

Sustainable Navigation App [GitHub](#)

- Built **GreenPath**, a React Native app that recommends eco-friendly travel routes by integrating **Google Maps Directions, Traffic, and Air Quality APIs**. Designed a custom *eco-score algorithm* to balance pollution levels, congestion, and user health preferences.
- Technologies:** React Native, Express.js, MongoDB, Google Maps API, Air Quality API

Code Migration CLI Tool [Docker](#)

- Developed a **CLI based automation tool** in Node.js to scan and refactor legacy projects by replacing deprecated code with modern alternatives, supporting **4+ programming languages** and reducing manual effort.
- Technologies:** JavaScript, Node.js, Yargs, Chalk, Docker

Technical Skills

- Programming Languages:** C, Java, JavaScript
- Frontend Technologies:** HTML5, CSS3, ReactJS, Tailwind CSS
- Backend & Databases:** Node.js, Express.js, REST API, MongoDB, MySQL
- Developer Tools:** Git/GitHub, Docker, Postman, VS Code, IntelliJ IDEA, Canva

Accomplishments

- 5-star Java Programmer** on HackerRank | Solved 100+ problems on LeetCode, GFG, and HackerRank
- Built and deployed a **website for college fest**, showcasing web development and management skills [Link](#)
- Participated in **24-hour hackathon** at KPR College (collaborated with IEEE) and developed mobile app.
- Presented technical papers and joined hackathons and workshops to build applied technical knowledge

Courses & Certifications

- Diploma in Computer Applications (DCA)
- Java Full Stack Developer – [Coursera](#)
- Artificial Intelligence Fundamentals – [IBM](#)
- GitHub Fundamentals – [Microsoft](#)