

MADHAN KUMAR S

Software Development Engineer

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PROFESSIONAL SUMMARY

Self-driven AI Software Development Engineer with a strong foundation in full-stack web application development. Proficient in JavaScript, React, Node.js, and MongoDB, with hands-on experience building scalable, maintainable, and user-centric applications using modern technologies and best practices. Committed to continuous learning, clean code principles, and delivering high-quality, performance-oriented solutions.

EXPERIENCE

SDE – Healthpilot by Botcode, Chennai

Dec 2025 – Present

- Transitioned into the SDE role, maintaining core business logic, executing database migrations, and resolving complex UI, performance, and system-level issues.

Full Stack Developer – Healthpilot by Botcode, Chennai

Aug 2025 – Dec 2025

- Worked on end-to-end development of Healthcare applications, implementing AI features, integrating databases, and delivering production-ready features following best practices.

Front End Developer – COSIE, Chennai

Aug 2025 – Feb 2026

- Developed responsive and user-friendly interfaces using modern frontend technologies, fixed UI/UX issues, and collaborated with backend teams to ensure seamless integration.

MERN Stack Developer Intern – Brototype, Chennai

Aug 2024 – Aug 2025

- Gained hands-on experience building full-stack MERN applications, focusing on frontend development, backend logic, database design, and real-world project implementation.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python
- **Frontend:** React.js, Redux, Next.js, Tailwind CSS, Bootstrap, Shadcn, generative UI, copilotkit
- **Backend:** Node.js, Express.js, Bun, SOLID Principals, Docker
- **Databases:** MongoDB, Firebase, Supabase
- **Tools:** Git, Cursor, linear, VS copilot, LLM API
- **Concepts:** MCP, Agentic AI, GenUI, LLM API, DB Migrations, Responsive Design, AI Integration

PROJECTS

SkillSync – AI Powered Job Portal

[Live](#) | [GitHub](#)

An advanced job portal platform integrating AI-powered features for enhanced user experience and real-time interactions.

- Designed with scalable architecture to handle dynamic job postings and applications efficiently.
- Implemented core functionalities including job posting, job search, application submission, **AI-driven mock interviews** with feedback, and real-time **AI voice interview agents**.
- Utilized WebSockets for real-time communication and JWT for secure user authentication.
- **Technologies:** React, Next.js, Node.js, Express.js, MongoDB, Gemini AI, WebSockets, JWT, Framer Motion, Custom themes

Gymratz – MERN Stack E-commerce Platform

[Live](#) | [GitHub](#)

A full-featured fitness product e-commerce platform built using the MERN stack.

- Implemented key features including shopping cart, wishlist, secure checkout, and an admin dashboard for product and order management.
- Integrated Stripe payment gateway for seamless transactions and automatic invoice generation.
- Designed a fully responsive and modern UI using Tailwind CSS for excellent user experience across devices.
- **Technologies:** React, Node.js, Express.js, MongoDB, Mongoose, Stripe, JWT, Tailwind CSS

MINI PROJECTS

EZONE - E-commerce Frontend Project

[Live](#) | [GitHub](#)

A responsive e-commerce frontend application developed to enhance frontend skills through real-world UI implementation.

- Built with modular React components and styled using Tailwind CSS for modern, utility-first design.
- Focused on user-friendly product displays, filtering, responsive layouts, and cart interactions.
- Enhanced state management and user experience across devices with component reusability.
- **Technologies:** React (UI components), Tailwind CSS (utility-first styling), JavaScript (logic), Responsive Web Design

EPORTFOLIO – Frontend Portfolio

[Live](#) | [GitHub](#)

A personal portfolio site with fluid animations and a dynamic interface showcasing skills, projects, and contact info.

- Designed for visual impact using Framer Motion to add smooth transitions and component animations.
- Built with React and Tailwind CSS, ensuring modularity, responsiveness, and clean layout structure.
- Features include animated project cards, contact form, and themed sections to highlight frontend expertise.
- **Technologies:** React (UI components), Tailwind CSS (styling), Framer Motion (animations), JSX (component structure)

EDUCATION

Higher Secondary (HSC) – Voc Government Hr.Sec.School, Puducherry, India

2021 -2022

- Percentage: 79

Secondary (SSLC), Government High School - Gandhi Nager, Puducherry, India

2019 - 2020

- Percentage: 69

LEADERSHIP & MENTORSHIP

• Awarded the **Best Coordination Award** at Brocamp for effectively managing weekly tasks and fostering peer collaboration. [Link](#)

• *Winner of a **LeetCode Challenge**, recognized for rapid problem-solving and high accuracy under time constraints.* [Link](#)

• Mentored 5 junior developers through a personalized learning plan, conducting weekly code reviews and pair programming; boosted team velocity by 15% and reduced bug reports by 22%.

• Led a 4-member development team to deliver an e-commerce project 2 weeks ahead of schedule with zero critical bugs at launch.

TECHNICAL STRENGTHS

Algorithm Optimization | Database Design | Solution Architecture | Code Efficiency | UX Development | System Integration | Error Handling | Performance Testing