

Manojit Balasubramanian

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OBJECTIVE

Aspiring Full-Stack Engineer looking to leverage development skills to develop reliable, intuitive applications. Eager to learn, take ownership of meaningful work, and make a strong impact on team goals.

SKILLS

- **Languages:** TypeScript, JavaScript, Dart, Java, C, Python, HTML, CSS
- **Tech Stack:** React.js, Express.js, Node.js, MongoDB, Tailwind CSS, Flutter
- **Tools:** Git, GitHub, Postman, Vite

EXPERIENCE

- **Software Intern | Green Collar Agritech Solutions | GCAS** ↗ Remote
React.js, WDIO, Tanstack Router, Flutter Apr 2025 – Aug 2025
 - Implemented Windows deep-link integration for React (TypeScript) and Flutter desktop apps within a monorepo, enabling seamless navigation between desktop applications and browser workflows while standardizing shared components and CI/CD pipelines across multiple apps.
 - Improved cross-app navigation performance by 40% through optimized deep-link handling and routing logic using TanStack Router.
 - Built and maintained unit and integration test suites using WDIO, significantly improving reliability and reducing regression issues across shared modules.

PROJECTS

- **Blood Donor Management System** ↗ repo | ↗ demo
React.js, Express.js, MongoDB, Node.js, Tailwind CSS
 - Built a full-stack Blood Donor Management System using React, Vite, Tailwind CSS, Node.js/Express, and MongoDB, improving donor onboarding and admin workflows through a secure, scalable architecture
 - Implemented JWT authentication, role-based access control, and secure RESTful APIs to strengthen data protection and ensure reliable operations across donor and admin modules.
 - Developed a responsive UI and optimized backend logic, delivering smoother user interactions and production-ready, maintainable system performance for both donors and admins.
- **Chat App** ↗ repo
React.js, Express.js, MongoDB, Node.js, Socket.io, Tailwind CSS
 - Built a full-stack real-time chat application using the MERN stack to enable instant, seamless communication for users across devices.
 - Developed secure authentication flows and RESTful APIs for messaging and user management which improved reliability, data handling, and user trust for all chat interactions.
 - Implemented WebSocket-based real-time messaging and MongoDB-backed storage delivering low-latency updates and persistent chat history for every conversation.
- **Weather App** ↗ repo
Flutter, Dart, Mobile
 - Designed and developed a Flutter-based weather app to deliver real-time weather updates across multiple locations, integrating external weather APIs with efficient HTTP request handling for data retrieval.
 - Applied Dart best practices and state management techniques to ensure smooth UI updates, reliable performance, and a responsive user experience across all core features.

EDUCATION

- **Kongu Engineering College** Tamil Nadu, IN
B.Tech in Artificial Intelligence & Data Science; CGPA: 7.07 Jul 2023 – present
- **Cheran Matric Hr. Sec. School** Tamil Nadu, IN
HSC; Score: 70.3% Jun 2021 – Mar 2023