

MANIKANDAN K

MERN Stack Developer

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Professional Summary

Backend Focused Fullstack Developer with proven experience in Node.js, Express, and TypeScript, delivering scalable and secure server-side solutions. Proficient in designing RESTful APIs, integrating MongoDB, and implementing robust JWT-based authentication. Contributed to full-stack development with React, ensuring seamless frontend-backend integration. Committed to clean architecture, high performance, and building reliable backend systems for modern applications

Technical Skills

- **Language and frameworks** : JavaScript, Express.js
- **Front End Development** : React.js, Redux, HTML5, CSS3, Bootstrap, EJS, Tailwind css, FramerMotion, Ant Design, Shadcn
- **Back End Development** : Node.js, Express.js, Typescript, Repository Pattern, Clean Architecture,
- **Database** : MongoDB, PostgreSQL
- **Tools** : Git, GitHub, VS Code, Figma
- **Operating System** : Ubuntu, Windows
- **Familiar With** : Data Structure and algorithm, MVC Architecture, Repository Architecture, Postman, AWS, NGINX, Razorpay, Firebase, JWT, RESTful APIs, ECMAScript,

EXPERIENCE

Master n Masters

November-2024 – Present

Full-Stack Developer

- Developed and maintained scalable **frontend and backend systems** using **Node.js (TypeScript)**, React, and Tailwind CSS, following **Clean Architecture** and microservice principles.
- Built **production-ready frontend applications** with React, TypeScript, modular components, responsive UI, and route-based navigation; implemented smooth animations using **Framer Motion** and UI consistency using **Ant Design / MUI**.
- Integrated **Redux Toolkit** to manage complex data flows, using reducers, selectors, and async thanks for seamless API communication.
- Designed and implemented **secure RESTful APIs** for web and game applications, integrating **Google Authentication** for login security and **Razorpay** for seamless payment processing.
- Optimized frontend performance with lazy loading, reduced re-renders, reusable utilities, and component-driven architecture.
- Integrated **Groq AI** to generate customized student reports based on individual and school-wide performance.
- Manually deployed production-ready applications on **DigitalOcean**, configured servers, managed DNS, SSL, and ensured consistent uptime for live environments.
- Collaborated within **Agile teams**, participating in sprint planning, code reviews, API validations, and architecture improvements.
- Improved SEO by adding meta keywords, optimizing page metadata, and configuring `robots.txt` and `sitemap.xml` to enhance search visibility.

PROJECTS

ShoeStruct - E-commerce Website

[Source Code](#), [Live link](#)

ShoeStruct is an e-commerce website dedicated to the sale of shoes, allowing customers to browse and purchase items through online. The application provides a user-friendly interface where customers can easily browse various Shoes products, view detailed descriptions and images, and make secure purchases. ShoeStruct aims to offer a seamless shopping experience by providing intuitive navigation, convenient search options, and secure payment gateways.

- Developed and launched a fully operational **e-commerce** platform focused on Shoes retail, designed to deliver a seamless online shopping experience.
- Prioritized user convenience by implementing an intuitive shopping cart, a seamless checkout process, diverse payment methods, and the ability for users to modify or cancel orders.
- Engineered a robust admin panel integrated with a comprehensive order management system, ensuring efficient control over products, orders, and user accounts.
- Leveraged **AWS Cloud Service**, along with **Nginx** and **PM2** for deployment, resulting in a high-performing, reliable, and secure platform with the capacity for seamless scalability.

Technologies Used: Node.js, Express.js, MongoDB, Razorpay, EJS, HTML5, CSS3, AWS, Nginx, Chart.js

MINI PROJECTS

User Management

[Source code](#)

- Leverage the **MERN stack** technology (**MongoDB, Express, React, Node.js**) for comprehensive user management.
- Implement features like user authentication, authorization, profile management, and a responsive interface.

Netflix - Video streaming platform

[Source code](#)

- Real-time Netflix clone built with React and **TMDB API**(The movie database).
- It also includes live movie trailer playing with **React Player**.

OLX - Buy and sell products

[Source code](#)

- User interactive platform to buy or sell products.
- Integrated **Firestore** database and utilized **Firebase authentication** for seamless user experience.

EDUCATION

Diploma In Medical Imaging Technology - DR's Academy Of Science, changaramkulam, (2020-2023)

Mern Stack Development - Brototype, Ernakulam, (2024)

AWARDS

Tech Solutions Award – Recognized for outstanding full-stack development contributions, delivering impactful features, improving system performance, and enhancing overall product quality. (2025)