Alan Thomas

MERN Stack Developer

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Portfolio | LinkedIn | GitHub

Profile Summary

Passionate and dedicated MERN Stack Developer with hands-on professional experience in designing and developing full-stack web applications. Skilled in building scalable and efficient solutions using React.js, Node.js, Express.js, and MongoDB. Experienced in REST API development, authentication systems, and responsive UI design. Quick learner, team-oriented, and driven by a desire to deliver high-quality code and impactful digital solutions.

Technical Skills

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Next.js, Redux, Tailwind CSS, Bootstrap, Responsive Design

Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, Socket.io, TypeScript, Firebase, Arcjet, resend

Database & Tools: MongoDB, Mongoose, Git, GitHub, Postman, VS Code, Linux (Basic), Cloud Deployment

Professional Experience

Junior MERN Stack Developer *Novox Core, Calicut — Oct 2024 – Sep 2025*

- Contributed to multiple real-world web applications, primarily focusing on backend development using Node.js and Express.js.

- Worked on a Single Page Application (SPA) booking platform and a hospital management dashboard.

- Implemented RESTful APIs, authentication, and database schemas using MongoDB and Mongoose.

- Collaborated with front-end teams to ensure seamless data flow and responsive UI integration.

- Maintained code quality through version control (Git) and Agile-based development practices.

On-Job Training (MERN Stack Development) *Novox Edtech LLP — Aug 2024 – Oct 2024*

- Underwent intensive hands-on training in full-stack development with MongoDB, Express.js, React.js, and Node.js.

- Completed multiple practical projects covering authentication, API integration, and deployment workflows.

- Gained experience in Git, version control, and cloud-based deployment strategies.

Projects

Real-Time Chat Application *Live — GitHub*

Developed a full-featured, real-time chat application using the MERN stack (MongoDB, Express.js, React, Node.js) with Socket.io for live, bi-directional communication.

- Implemented secure user authentication using JWT tokens stored in HTTP-only cookies.

- Built a responsive React frontend with state managed efficiently by Zustand for optimal performance.

- Engineered real-time features including instant messaging, online/offline user status indicators, and typing indicators.

- Integrated Cloudinary to handle user avatar and image uploads within chats.

- Secured the backend API by implementing rate limiting to prevent abuse and DDoS attacks.

SerenoCare - Doctor Appointment System *Live — GitHub*

Developed a comprehensive healthcare appointment platform with multi-role access control and real-time scheduling capabilities.

- Implemented a robust three-tier role-based access system (Admin, Doctor, Patient) with distinct permissions and dashboards.

- Designed secure authentication using JWT tokens with protected routes and session management.

- Built a scalable state management solution using React Context API to handle user sessions and application data.

- Created appointment scheduling with time slot management, booking confirmation, and status tracking.

- Developed admin panel for user management, doctor verification, and system oversight.

KARMA - E-Commerce Platform *Live — GitHub*

Engineered a full-stack e-commerce solution with comprehensive administrative controls and customer-facing features.

- Implemented complete product lifecycle management (CRUD operations) with inventory tracking and categorization.

- Integrated secure payment processing system for seamless customer transactions and order management.

- Designed dual-panel architecture with separate, optimized interfaces for administrators and customers.

- Built responsive, mobile-first user interfaces using EJS templating and custom CSS for cross-device compatibility.

- Structured application using MVC architecture for maintainable, scalable backend logic and database operations.

- Developed user authentication system, shopping cart functionality, and order history tracking.

Education

Vocational Higher Secondary Education *REC GVHSS Chathamangalam — Completed 2024 (Pursued from 2017–2019)*