Albin Aji

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About Me

As a self-taught MERN stack developer from Kochi, I specialize in backend-heavy full-stack development, focusing on creating scalable, efficient, and secure server-side applications. My passion for distributed systems and learning new technologies drives my commitment to delivering high-quality solutions.

Education

BROTOTYPE, MERN Full Stack Development	March 2024 - Present
ST.THOMAS COLLEGE - MG University, BSc in Computer Science	June 2021 – March 2024
ST.THOMAS HSS, ERUVELLIPRA, Higher Secondary in Computer Science	June 2019 – March 2021

Technologies

Expertise: JavaScript, TypeScript, Node.js, Express.js, React.js, PostgreSQL, MongoDB, RESTful APIs, Redux, Socket.io, MVC Architecture, SOLID Principles, Clean Architecture, DSA (Data Structures and Algorithms), Docker

Also Used: JWT, TanStack Query, Zustand, CI/CD, Postman, Tailwind CSS, Bootstrap, Figma, Git

Integrations: Razorpay, PayPal, Cloudinary, AWS, GDC, Nginx, Firebase, OAuth2.0, Clerk Authentication, Nodemailer, Multer,

Experience

Professional Development Program, Packapeer Academy   June 2024 – Present

Engaged in a comprehensive self-learning program featuring hands-on projects, personalized mentorship from industry experts, weekly performance reviews, and real-world applications, fostering innovative problem-solving, technical proficiency, and a commitment to continuous improvement.

Projects

Cell Sphere, e-commerce website   github.com/albin6

- **Specialized E-commerce Platform:** Built a platform for mobile phones with advanced filtering, secure checkout, and seamless navigation.
- **Scalable Backend:** Developed a Node.js and Express.js backend with MongoDB, using JWT and Google OAuth for secure and flexible authentication.
- **Efficient Architecture:** Followed MVC principles for better scalability, maintainability, and streamlined feature development.
- **Features**
- User Experience Enhancements: Implemented offers, coupons, wishlist, wallet, carts, and referral.
- Seamless Payment Processing: Integrated Razorpay, and PayPal for secure payments and ensured OTP confirmation via Node-Mailer for enhanced security.
- Order Management: Enabled order tracking and invoice generation.

Technologies Used

- **Backend:** Node.js, Express.js, MongoDB, MVC Architecture, JWT, Bcrypt
- **Frontend:** React.js, Redux, ReactQuery, Vite, React-Toastify, Formik (for form handling and validation), Lazy Loading (for performance optimization)
- **DevOps and Tools:** Git, GitHub, Postman (API testing), ESLint (code quality), Prettier (code formatting).
- **Also Used:** AWS, Razorpay, PayPal, Axios, OAuth2.0, Cloudinary

Business Portfolio Website business portfolio

- **Interactive Portfolio:** Designed and developed a modern business portfolio showcasing company details, services, and achievements with an engaging user interface.
- **Smooth Animations and Interactions:** Integrated **Framer Motion** to deliver dynamic animations and a seamless user experience.
- **Location Mapping:** Implemented **Leaflet.js** maps to display the company's branch locations interactively.
- **Responsive and Accessible Design:** Built with **Tailwind CSS** for pixel-perfect responsiveness and ensured accessibility across all devices.
- **Efficient Type Safety and Scalability:** Utilized **React with TypeScript** to write type-safe and scalable code.

Technologies Used

- **Frontend:** React.js, TypeScript, Tailwind CSS, Framer Motion, Leaflet.js
- **Tools:** Git, GitHub, Vite, ESLint, Prettier