

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, Next.js, React.js, PostgreSQL, MongoDB, GraphQL, RESTful APIs, Redux, Socket.io, MVC Architecture, SOLID Principles, Clean Architecture, DSA (Data Structures and Algorithms)

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

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

Experience

Professional Development Program , Packapeer Academy	June 2024 – Present
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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

Zyra Moments, Event Management and Hosting Platform	github.com/albin6/zyra-...
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- **Comprehensive Event Platform:** Created a platform connecting users with vendors and enabling event hosting with features like ticketing and QR-based attendance tracking.
- **Robust Backend:** Built a scalable Express.js backend with MongoDB, implementing JWT for authentication, Socket.IO for real-time chat, and Redis for caching.
- **Clean Architecture:** Followed Clean Architecture and SOLID principles for maintainability, scalability, and modular development.
- **Mobile Collaboration:** Partnered with a mobile app developer to extend the platform's functionality to a mobile application, ensuring cross-platform consistency.(Currently on development.)
- **Features**
 - User Experience Enhancements: Developed event browsing, review/rating system, admin escrow setup, and token blacklisting for security.
 - Real-Time Functionality: Integrated Socket.IO for chat and QR code generation/scanning for ticketing and attendance.
 - Deployment Pipeline: Configured CI/CD pipeline and hosted on AWS EC2 with Winston logger for monitoring.

Technologies Used

- **Backend:** Express.js, TypeScript, Node.js, Mongoose (MongoDB), JWT, Socket.IO, Redis, UUID, QR Code

Library, Winston Logger

- **Frontend:** React, TypeScript, React Query, Redux, Moment.js, HTML5-QRCode
- **DevOps and Tools:** AWS EC2, CI/CD Pipeline, Git, GitHub, Postman (API testing)
- **Also Used:** Clean Architecture, SOLID Principles

Dynamic Workflow and Form Management Platform

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- Collaborated on the development of a comprehensive platform tailored for managing dynamic workflows, customizable forms, and user management, catering to the unique needs of various industries.
- **Advanced Forms Management:** Engineered highly interactive and configurable forms leveraging **formio.js** and **Formik**, combined with **Yup**-based validation for complex input validation scenarios, enhancing data accuracy and submission efficiency.
- **Secure and Efficient File Handling:** Built a robust file upload and management system using **Multer**, ensuring secure file storage and retrieval, with a structured integration into the **MongoDB** database for seamless access.
- **User Authentication and Role Management:** Designed and implemented secure user authentication mechanisms with **JWT (JSON Web Tokens)** and established role-based access controls to safeguard application resources and ensure granular permissions for different user roles.
- **GraphQL Data Integration and API Development:** Contributed to developing scalable APIs using **Nest.js**, while integrating **GraphQL** with **Apollo Client** for highly efficient and flexible data querying on the frontend.
- **Collaborative and Scalable Architecture:** Played a key role in creating modular and maintainable codebases by adhering to clean coding principles and implementing reusable components and APIs, ensuring scalability and long-term maintainability.

Technologies Used

- **Frontend:** Next.js, React.js, Apollo Client, Redux Toolkit, Formik, GraphQL
- **Backend:** MongoDB, Mongoose, Multer, JWT, GraphQL
- **Tools:** ESLint, Prettier, Git, GitHub

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

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- **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