Abel Tomy

Full-Stack Web Developer

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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

Packapeer Academy, MERN Full Stack Development — September 2024 – Present

CMS College, Kottayam, Bachelors in Computer Application — June 2021 – March 2024

Technologies

Expertise: JavaScript, TypeScript, Node.js, Express.js, React.js, MongoDB, RESTful APIs

Familiar With: MySQL, PostgreSQL, Redux, Socket.io, MVC Architecture, SOLID Principles, Clean Architecture, DSA (Data Structures and Algorithms)

Tools & Frameworks: JWT, Sequelize, Mongoose, Redux Toolkit, Zustand, CI/CD, Postman, Tailwind CSS, Bootstrap, Figma, Git

Integrations & Services: Stripe, Razorpay, Cloudinary, WebHooks, AWS, Nginx, Firebase, OAuth2.0, Nodemailer, Multer

Experience

Professional Development Program, Packapeer Academy — September 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

BookMyDesk, Co-Working Space Browsing and Booking Platform — Frontend | Backend

- **Comprehensive Booking Platform:** Built a coworking space booking platform that enables users to discover flexible workspaces, compare amenities, and make hassle-free reservations while vendors manage listings and bookings efficiently.
- **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.
- **Features**
- User Experience Enhancements: Implemented advanced filtering options, allowing users to discover nearby working spaces based on location amenities.
- Real-Time Functionality: Integrated Socket.IO for chat, push notifications, and media sharing.
- Deployment Pipeline: Configured CI/CD pipeline and hosted on AWS EC2 with Winston logger for monitoring.
- Designed flexible space management workflows, allowing vendors to list coworking spaces, set pricing and availability, and streamline bookings with ease.
- Implemented Stripe for secure, flexible payments, allowing both clients and vendors to manage bookings and transactions reliably.

- Added location intelligence with Nominatim API from Open Street Map for location selection and for calculating the distance between user and working space.
- Built an admin dashboard to manage clients, vendors, buildings, and monitor overall revenue in real time.

Technologies Used

Backend: Express.js, TypeScript, Node.js, Mongoose (MongoDB), JWT, Socket.IO, Redis, UUID, Stripe, S3 Bucket, Winston Logger

Frontend: React, TypeScript, Redux Toolkit, React Query, Stripe, Open Street Map

DevOps and Tools:AWS EC2, CI/CD Pipeline, Git, GitHub, Postman (API testing)

Also Used: Clean Architecture, SOLID Principles

GreenMind, E-commerce Frontend | Backend

- **Specialized E-commerce Platform:** Built a Node.js and Express-based backend for a plant e-commerce platform.
- **Scalable Backend:** Built interactive product and design pages with React, powered by real-time APIs from the Node.js/Express backend.
- **Efficient Architecture:** Followed MVC principles for better scalability, maintainability, and streamlined feature development.
- **Features**
- User Experience Enhancements: Implemented offers, coupons, wishlist, wallet, cart.
- Seamless Payment Processing: Integrated Razorpay for secure payments and ensured OTP confirmation via Node-Mailer for enhanced security.
- Order Management: Enabled order tracking and invoice generation. Properly handled concurrent bookings.

Technologies Used

Backend: Express, Node.js, MongoDB, MVC Architecture, Bcrypt

Frontend: React, Redux Toolkit, TailwindCSS, JavaScript

DevOps and Tools: Git, GitHub, Postman (API testing), Prettier (code formatting).

Also Used: AWS, Razorpay, OAuth2.0, Cloudinary, Passport.js