

Ajin R

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in ajin-r | 🌐 ajin-r | 📁 Portfolio

Summary

Full-Stack Developer with strong expertise in the MERN stack and modern web development. Specialized in creating visually stunning and accessible web applications that prioritize high availability and scalability. Committed to lifelong learning and embracing new challenges, seeking continuous growth and improvement.

Technical Skills

- **Languages:** JavaScript, TypeScript, HTML, (S)CSS, MongoDB
- **Frameworks & Libraries:** Node.js, Express.js, React, Redux, Next.js 14, Tailwind CSS, NextAuth
- **AI & Data:** Hugging Face Transformers, Pinecone, OpenAI, LangChain, RAG (Retrieval-Augmented Generation)
- **Microservices & Architecture:** REST APIs, MVC, Docker, Kubernetes, Redis, Helm
- **DevOps & Deployment:** Git, GitHub Actions, Nginx, CI/CD, AWS, Vercel, Netlify, Render
- **Tools & Platforms:** Postman, Firebase, MongoDB Atlas, GoDaddy, DNS
- **Design & Prototyping:** Figma, Photoshop, Blender
- **Core Concepts:** Clean Architecture, SOLID Principles, OAuth 2.0

Experience

Project-Based Software Development Trainee

Mentor Bro
April 2025 – Present

- Built and deployed full-stack web applications using the **MERN** stack (MongoDB, Express.js, React.js, Node.js)
- Contributed as a backend developer on the **Kooli App** project, focused on scalable and secure backend architecture
- Designed and implemented **RESTful APIs** using Node.js and Express for efficient and secure communication
- Integrated third-party services including payment gateways and cloud storage
- Implemented authentication and role-based access control using **JWT** and **middleware**

Projects

Multi-Role E-Commerce Platform | MongoDB, Express.js, React.js, Node.js, Tailwind CSS

[Live](#) | [GitHub](#)

Designed and developed a full-stack, production-grade e-commerce platform using the **MERN stack**, featuring **role-based access control** for **Users**, **Merchants**, **Delivery Personnel**, and **Super Admin**. Implemented a clean **MVC architecture**, built robust **RESTful APIs**.

- **Authentication:** OTP-based signup and password reset via email, secured login using **JWT** and **Express Session**, password hashing with **Bcrypt**.
- **User Panel:** Dynamic slider and category sections managed by Super Admin, complete profile and address management, dynamic wishlist and cart, auto-applied coupon system, seamless **Razorpay** payment integration, real-time **order tracking** with cancel/return flows, and downloadable PDF invoices.
- **Product Discovery:** Fully-featured product page with **dynamic** search, category-

based filtering, price and sorting functionality. Implemented a responsive layout with a **dark/light** theme toggle to enhance **UX** and accessibility across devices.

- **Merchant Panel:** Role-based access to product management with full **CRUD** operations, image upload and preview via **Multer**, stock level monitoring, category assignment, personalized order history, and product performance **analytics**.
- **Super Admin Panel:** Centralized management of users, merchants, delivery personnel, product categories, sliders. Coupon creation with auto-apply logic based on purchase threshold. Access to full platform-wide **analytics** and **invoice** export.
- **Delivery Panel:** Dedicated dashboard to update order status (e.g., shipped, delivered), view delivery address and customer contact info, and mark cash collected to admin.
- **Analytics & Reporting:** Real-time dashboards for revenue (total income, AOV, conversion rate), product trends, user activity graphs, and filterable reports by date range, downloadable sales and invoice reports.

Intelligent AI Chatbot with RAG | Next.js, TypeScript, Node.js, MongoDB, Pinecone, Hugging Face, NextAuth

[Live](#) | [GitHub](#)

Built a full-stack AI chatbot integrating **LLMs**, **RAG**, and real-time web search. Engineered using scalable **Next.js** frontend and clean **MVC backend** architecture.

- **LLM Integration:** Integrated transformer-based models via **Hugging Face** to generate accurate, human-like responses.
- **RAG with Pinecone:** Retrieved relevant document chunks for context-rich answers.
- **Web Search:** Fetched real-time data using external **search APIs**.
- **Chat Persistence:** Enabled multi-turn conversations using **MongoDB** to retain context across messages.
- **Authentication:** Secured access via Google OAuth with **NextAuth**.
- **Frontend:** Built modular, maintainable UI using **Next.js + TypeScript**.
- **Backend:** Designed RESTful APIs with **Express.js** following the **MVC pattern**.

Mini Projects

SEO-Optimized Blog App | Next.js, MongoDB, Tailwind CSS

[Live](#) | [GitHub](#)

Built a fully responsive blog platform with **Server-Side Rendering (SSR)** for better SEO and performance. - Dynamic file-based routing and custom meta tags - Semantic HTML structure with Tailwind for styling - No UI libraries used to emphasize core frontend concepts

Invoice Generator App | Next.js, Tailwind CSS

[Live](#) | [GitHub](#)

Created an interactive invoice tool with real-time calculations and client-side PDF generation. - Add/remove items, auto subtotal, tax, and invoice number/date - Tailwind-based UI with modular, reusable components - Exports downloadable PDFs directly in the browser

Real-Time Chat App | React.js, Node.js, Express, Socket.IO

[GitHub](#)

Built a real-time chat application with group messaging and login features. - Real-time communication using **Socket.IO** - Modular React components (login, chat, sidebar, messages) - Global state managed via **Redux** - REST API + WebSocket integration for chat handling

Education

Higher Secondary, Computer Science

- KCP HSS, Kavassery