

Adam Ridhwan

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EXPERIENCE

Software Engineer

Jun 2024 - Present

Ikigai Labs

Cambridge, MA

- Designed and developed responsive, user-friendly UI using React and TypeScript that allows seamless interaction with backend services, allowing users to visualize, manipulate, and exchange data through tables, charts, modals, forms, etc.
- Collaborated with the Machine Learning team to design and implement intuitive dashboards and tables to effectively communicate complex data insights to end-users.
- Collaborated with the Backend Team to design, develop, and integrate new features, such as connectors, data duplication, and platform usability.
- Migrated state management layer from Axios, Redux, and Redux-Saga to RTK Query to improve caching, loading state, and error handling across the codebase.
- Migrated legacy class components to functional components, reducing code size from thousands to hundreds of lines across multiple files while maintaining existing features and ensuring zero regressions.
- Migrated JavaScript components to TypeScript as a large scale over a 3-month initiative, introducing strong typing across the codebase to improve the developer experience, reduce bugs, and prevent “blind” coding.
- Developed a dynamic form system that rendered arguments based on backend specifications (string, number, boolean, map) and implemented onChange logic to send validated data back to the backend.
- Improved WebSocket stability by implementing optimized connection handling and a heartbeat mechanism to prevent premature closure during idle periods.
- Built an AI chat feature, implementing real-time WebSocket communication, persistent chat sessions via URL routing, and a modular component architecture.
- Implemented bidirectional communication logic between hosted application iframes, enabling seamless data exchange and interaction across embedded apps.

Software Engineer

Dec 2023 - May 2024

Approachable Geek

Lindon, UT

- Worked on multiple app development projects, contributing to timeline estimation, and both launch and post-launch maintenance phases.
- Developed serverless backend workflows for automated invoice processing, using AWS Lambda, S3, and scheduled cron jobs to generate, process, store, and send invoices reliably without manual intervention.
- Applied technical skills in Flutter and Dart for front-end development, with back-end integration using Firebase Firestore, Firebase Authentication, Firebase Cloud Storage, and Firebase Cloud Functions.
- Created reusable and documented UI components such as tables, inputs and cards that match high-fidelity designs.
- Implemented a Test-Driven Development (TDD) approach throughout all development phases, which involved rigorously writing new tests, resolving bugs, and deploying updates.

Software Engineer

Jun 2023 - Nov 2023

Geaux Network

Norwood, MA

- Worked on developing the company’s frontend and backend TV streaming service using React, Firebase, JavaScript.
- Developed a multi-step form allowing users to select products they wished to purchase from TV channels and implemented a database to manage user preferences, enabling data retrieval for both internal use and streamlined employee workflows.

SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, Dart

Frontend Technologies: Next.js, React.js, Flutter, Tailwind, HTML, CSS, SCSS

Backend Technologies: Supabase, Firebase, Node.js, PostgreSQL, MongoDB

Additional Tools: AWS, Vercel, NextAuth.js, Redux, Zustand, Jotai, Zod, React Query

EDUCATION

Boston University - Master of Science, Software Development

Sep 2021 - May 2023

Berklee College of Music - Bachelor of Music, Music Business

Sep 2017 - Aug 2021