

Wesley Lowe

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Full-stack Software Engineer

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Profile

Enthusiastic developer eager to learn and grow. Strong communication, collaboration, and listening skills, always looking to improve my knowledge with the latest technologies.

Technical Skills

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| Languages | TypeScript/JavaScript, C++, Rust |
| Frameworks/Libraries | React, React Native, ExpressJS, tRPC, NextJS, NestJS, Prisma, KnexJS, TypeORM, Electron, Jest, Zod, Chakra, Mantine, TailwindCSS |
| Database Systems | PostgreSQL, MySQL, MongoDB, Redis |
| Tools/Services | Git, GitHub, Turborepo, PNPM, Docker, Nginx, AWS RDS, AWS S3, AWS SES, Vercel, Vite, Webpack, Insomnia |

Experience

Cybership - Founding Engineer

OCTOBER 2023 - MARCH 2024

TypeScript, Node, NextJS, tRPC, ExpressJS, React, React Query, Prisma, Stripe, TailwindCSS, RadixUI, PlanetScale, AWS RDS, Bull Queue

- Utilized Turborepo to manage multiple apps and packages as a monorepo.
- Developed synchronization services using a distributed queue with Bull queue supporting multiple ecommerce platforms, allowing users to have more control over their ecommerce products and orders
- Developed a webhook processing system to support real-time event-driven synchronization across multiple e-commerce platforms (e.g., Shopify, Webflow).
- Led the effort in migrating from PlanetScale MySQL to PostgreSQL on AWS RDS.
- Implemented a team system, allowing users to create teams and manage others users as part of their team
- Implemented a custom and secure authentication service compliant with OWASP guidelines

- Utilized MJML and React to create email templates to generate responsive emails for several lifecycle events of the application
 - Developed efficient PDF templates using ReactPDF for inclusion in consumer shipments.
 - Implemented a server using ExpressJS and tRPC, allowing type safety across multiple clients
 - Designed and implemented a unified ecommerce data schema, allowing unified representations of products and orders across multiple third party ecommerce platforms.
 - Assisted in implementing a robust fulfillment solution, allowing fulfillment across multiple locations.
 - Led the effort to create an inventory management system allowing inventory metrics and synchronization of inventory levels between ecommerce platforms to prevent overselling.
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Projects

ScrapeGoat - Founder and Lead Engineer

JANUARY 2023 - OCTOBER 2023

TypeScript, Serverless, AWS Lambda, React, NestJS, Electron

- Engineered a modular flow-based programming engine allowing users to create a visual workflow to orchestrate a headless browser for web scraping.
- Implemented common flow-based programming paradigms such as ports, control flow, and several core nodes allowing data transformation, such as HTML or JSON parsing.
- Designed a visual builder using ChakraUI, NextJS, and React Flow, allowing users to drag and drop “nodes” on the canvas.
- Implemented a distributed and scalable workflow processing pipeline using AWS Lambda
- Created a desktop app using Electron and React for users to be able to design and execute workflows locally
- Implemented a sandboxed JavaScript environment to allow users to manually fallback to scripting when necessary
- Engineered the server using NestJS and OpenAPI for documentation.

Sigma - Personal Project

TypeScript, React, Electron, ChakraUI

- Designed an easy-to-use free music player with React and Electron React Boilerplate.
- Implemented common music player features such as playlists, shuffle, looping, seeking, audio controls, and a search function using a fuzzy search algorithm
- Utilized an invisible embedded YouTube instance to play audio without ads
- Created several React hooks to abstract business logic from the UI layer

Resources

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| GitHub | github.com/WLowe10 |
| LinkedIn | linkedin.com/in/wes-lowe |
| Portfolio | wlowe.dev |