Mike Peterson

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Skills

Languages: TypeScript, JavaScript, Python, SQL, GraphQL
Tools: React, Next.js, Tailwind, PostgreSQL, TanStack Query, Zustand, Playwright, Git

Experience

Founding Software Engineer, Luca (YC W23)   2024 – 2024
- Took price plan deletions down from 30 minutes to 2 seconds by optimizing PostgreSQL table relationships
- Achieved instant user interactions by updating the UI before changing the DB, resulting in a snappy user experience
- Informed users of current pricing landscape by building price index summary notifications for Slack and email
- Enabled pre-launch feature testing using branch previews (Next.js/Vercel) and Launch Darkly feature flags
- Ensure smooth data ingestion by building and documenting REST APIs for our competitor intelligence provider

Founding Software Engineer, Avogadro   2023 – 2024
- Streamlined lead generation by building a React/TypeScript tool to scrape and export prospects from LinkedIn
- Protected product stability by building an end-to-end test suite using Playwright and GitHub Actions
- Led team meeting to establish React state management coding standards for the frontend team

Senior Software Engineer, Zillow   2022 – 2023
- Revamped mortgage processing system used by 120 loan officers to facilitate $72m in mortgages per month
- 5x'ed the mortgage options available to loan officers for each borrower, taking 45 minute sessions down to 5 minutes
- Owned the business logic and input validation code for the forms that determine end-user mortgage qualification
- Extended Python/Go document generation microservices enabling loan officers to send customers custom PDFs
- Ensured user-entered data validity by using React Hook Form and Yup to control and verify form data
- Coordinated with design team and business analysts to ensure features met functional and usability requirements

Software Engineer, STEMTaught   2018 – 2021
- Enabled site admins to create and edit content of digital textbook by building a custom page editor with React
- Improved content accessibility for students by highlighting words in the textbook as a recording read the text aloud
- Used Python and Google's Speech-to-Text API to determine the timing of each word in textbook audio recordings

Projects

RPC Library for Iframes   npmjs.com/package/@mike.pete/bime
- Developed a TypeScript-based, promise-driven RPC library to simplify and standardize communication with iframes
- Added critical features such as message acknowledgments, automatic retries, message validation, and origin security
- Created simple API that allows developers to focus on application logic instead of communication intricacies

Chrome Extension to Scrape Jobs on LinkedIn   github.com/mike-pete/bolt
- Architected the extension to host the UI externally, bypassing Chrome Store reviews for most feature iterations
- Built modular, remotely invoked scraping functions, enabling dynamic and context-aware operations
- Provided users with job relevancy insights by displaying the frequency of user-specified keywords found in job listing
- Reduced capital spend by migrating from initial MySQL database provider to a cost-effective PostgreSQL solution

Webpage Editor   github.com/mike-pete/webeditor
- Created webpage builder that allows users to use "block" components and CSS properties to craft webpage layouts
- Stored page elements as a map for constant-time access and preserved hierarchical structure via child ID arrays