

Jake Morales

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EDUCATION

University of California Riverside – *B.S. of Computer Science*

June 2018 – GPA: 3.71

EXPERIENCE

Rückbau, Remote – *Full Stack Developer*

November 2019 – PRESENT

- Primary developer on TryOurWine, a web and mobile app for conveniently finding wines sold by sellers & distributors
- Researched and developed proof-of-concepts for enhancing analytics offerings for Liquid Vine, a 3-tier ERP for the alcohol industry; incorporated 3rd-party “pivot” tables along with Amazon QuickSight and Google Data Studio
- Researched and developed a Progressive Web App proof-of-concept to demonstrate its advantages over React Native and PhoneGap; eventually built working demo of the TryOurWine app

PROJECTS

TryOurWine (tryourwine.com/demo) – *A web app for finding wine vendors in your area*

- Frontend: Angular 8, MaterializeCSS, Google Maps API. Backend: Node/Express, PostgreSQL
- Increased development velocity by using the Materialize framework with SASS for responsive design and styling
- Improved performance of filtering markers on a Google Map to constant time by using an index data structure
- Enhanced security by integrating reCaptcha service to prevent web scraping of proprietary data
- Wrote Node.js server component that securely connected to multiple APIs, including public endpoints from Google and private endpoints used to collect proprietary data

ShareQ (shareq.app) – *An app for real-time collaboration of Spotify playlists*

- Frontend: React 16.8, Material-UI. Backend: Redis, Node/Express, Knex.js, PostgreSQL
- Built the frontend with React.js to abstract the complexity of developing a UI that frequently updates
- Used the socket.io library for resilient real-time updates to reconnect websockets during network errors
- Decreasing critical load times by storing frequently updated data in memory with Redis instead of disk storage

PostBoard (thepostboardapp.com) – *Craigslist, but for garage sales*

- Frontend: React 16.8, Material-UI. Backend: GraphQL, Node/Express, MongoDB
- Refactoring with TypeScript to improve developer experience by structuring data and catching errors before runtime
- Adding GraphQL as an abstraction layer on top of the backend to simplify client-side requests for data
- Will eventually rebuild with Next.js for better SEO by allowing search engines to crawl individual garage sale pages

LINKS

Personal Website: jakemorales.dev

GitHub: github.com/jmora060

LinkedIn: linkedin.com/in/jakehmorales