

Max Weisenberger

Senior Software Engineer

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Technical Skills

Languages: TypeScript, JavaScript, Ruby, Golang

Frameworks & Libraries: Vue, Nuxt, Ionic, React, HTML, CSS, SASS, Express.js, Node.js, Vite, Mongoose, SQL, NoSQL

Technologies & Tools: OpenAI API, AI Integration, Git, MongoDB, PostgreSQL, AWS

Experience

Revolution Prep, Senior Software Engineer

Aug 2021 – present

Education technology and tutoring services.

- Led frontend development for critical consumer and internal applications, focusing on high-performance rendering and UX
- Built a data-intensive Score Report with AI-powered insights and complex data visualizations, driving a 13% increase in engagement
- Drove frontend architectural decisions during new product builds and upgrades
- Frequently traveled to partner schools during testing days to gather information about how our digital exam player application is being used and its performance
- Partnered with stakeholders and engineers throughout the entire development lifecycle, from idea to production
- Served as Team Lead for a variety of high-impact multi-month projects that spanned across different teams
- Built a cross-platform mobile app with Vue and Ionic, enabling 1,000's students to instantly score mock SAT/ACT exams every day, by scanning answer sheets with their phone's camera and Optical Mark Recognition
- Delivered a significant Nuxt app upgrade by rewriting key components and successfully migrating the codebase from Vue 2 to Vue 3, cutting deploy times down to 3 minutes
- Developed a Vue and Ionic web app with a Ruby on Rails backend that enables students to take digital mock SAT/ACT exams, supporting 2,000+ students every weekend
- Integrated a Ruby backend with Typeform to power the Self-Study product used by thousands of customers

Open Source

Spearmint

Interactive test generation and execution product developed under the tech accelerator OS Labs.

- Utilized inter-process communication to route all requests to the client's computer resources from render processes to main process, improving security via sandboxing
- Leveraged React's Context API to share test data between the Code Editor, in-app terminal, and file export system
- Created a fully functional in-app terminal using the frontend library Xterm.js for deep customization
- Modularized the user interface with Material-UI components to allow for a clean interface

Easy Parking

Data-intensive web application for real-time tracking of parking availability.

- Implemented a real-time, map-based interface using Google Maps API to visualize live parking availability
- Encrypted sensitive user information using bcrypt's hashing algorithm to secure admin-only portions of the application
- Implemented an interactive in-app map with Google Maps API to provide longitude and latitude data and live data
- Developed secure administrative portals with encrypted authentication to manage physical parking data

Public Talks and Articles

Build Tools Alternatives – Single Sprout Software Engineering Speaking Series

Spearmint Major Release

Medium

Published article regarding in-app testing with Spearmint

- Available at: <https://maxweisen.medium.com/in-app-testing-with-spearmint-1a75767741d2>

Education

BA California State University, Fullerton – Fullerton, California

Jan 2011