Resume - Kevin Qi

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Summary

I'm a product-minded engineer with frontend and backend experience at a range of startups involved in IoT, healthcare, and international trade. I've built substantial products end-to-end, and would like to work with a team that ships and iterates quickly.

Experience

Samsara

> Senior software engineer, Feb 2020–Mar 2022

Samsara is an IoT company that sells hardware devices like vehicle GPS trackers and dashcams, which helps trucking and logistics companies run their operations and stay compliant with US regulations. Stack: Go, Graphql, Typescript, React Native

- Worked extensively on "Autoduty", a critical backend service that automatically transitioned drivers between duty statuses (e.g. driving, onduty, offduty) based on vehicle movement and other telematics data.
- Projects included a large-scale migration to improve record creation latency from hours to seconds, DB perf improvements, and reducing the impacts of GPS drift.
- Helped build dev tools to improve issue investigation speed, and validation systems for correctness for large changes.

Amino

> Senior software engineer, Jan 2017–Sep 2019

Amino is a search tool which helps people find affordable doctors and hospitals, powered by insurance claims data. Stack: React, Python, Flask, Postgres, Docker.

- Lead engineer on the HSA banking product built on top of a third-party API provider. Did product management, worked closely with API provider, wrote proposals to get team buy-in, and helped mentor the HSA team.
- For HSA, designed and built the transaction reconciliation system, payroll system, banking DB schema, ACH transfers, and role-based permissions system. Helped build batch file processing system, enrollment processing, and admin tooling to support operations like reversals and rollovers.
- Helped guide and build a scalable design system based on composable CSS utility classes. Made frontend more maintainable by improving redux patterns and adopting standard libraries like Formik to replace homegrown components.

PatientsLikeMe

> Senior software engineer, Dec 2014–Aug 2016

PatientsLikeMe helps people with rare diseases by analyzing their condition and treatment data and using it to drive research. Stack: React, Ruby on Rails, Postgres, Swift.

- Built React frontend for a general-purpose patient interview framework, and wrote dozens of other React components.
- Helped introduce React and usage of ES6, webpack and javascript testing. Gave presentations on GraphQL, ES6 best practices, and React.
- Open-sourced two react components, react-calendar-heatmap and react-circular-progressbar, as part of a health tracking project.

Panjiva

> Software engineer, May 2011–Apr 2014

Panjiva makes global trade data searchable and understandable by building search and company profiles on top of raw shipment data and other sources. Stack: Ruby on Rails, Postgres.

- Built an interface to visualize Chinese trade data. Worked on numerous projects on homepage, search, subscription flows, and user dashboard. Improved conversion rate on high-traffic public company profiles.
- Helped introduce performance monitoring via NewRelic, acceptance testing, easier A/B testing, and established a code review process.

Selected open source projects

react-circular-progressbar

An open source circular progressbar for React, written in Typescript and extensively customizable. Built with React and SVG.

https://github.com/kevinsqi/react-circular-progressbar

react-calendar-heatmap

An open source calendar heatmap inspired by Github's contribution graph. Built with React and SVG.

https://github.com/kevinsqi/react-calendar-heatmap

react-piano

An open source interactive piano component which supports custom sounds, touch/click/keyboard events, programmatic playback, and fully configurable styling.

Published on npm.

Education

Carnegie Mellon University

B.S. in Computer Science, 3.86/4.0 GPA, 2006-2009

Skills

- Python, Flask
- Go
- Javascript, Typescript, NodeJS, React
- Ruby, Ruby on Rails
- PostgreSQL, MySQL
- GraphQL
- Conversant in Mandarin Chinese