JAI KO

Software Developer

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EDUCATION

University of Washington, Seattle

Mathematics B.S.*　　　2005.06-2011.09
Computer Science focused

LANGUAGES / FRAMEWORKS

HTML / CSS / JavaScript / jQuery / ES6+ /
Vue / React / Redux / SASS / SCSS /
TypeScript / PHP / Java / NodeJS /
Express / MySQL

CONCEPTS /
PARADIGMS

OOP / Responsive Design / SPA /
algorithms / Functional Programming /
Component-Based Architecture / MVC /
REST API / Serverless Architecture /
SOLID / TDD

TOOLS

npm / webpack / Firebase / Babel /
Chrome Devtool / Vue Devtool /
Vue test utils / Jest / VS Code /
React Dev Tool / Sentry / git /
Linux command line

MISC

Webmaster for KSA for two years.
Upgraded, updated, and maintained
organization's website.

Triplebyte front end developer and a
part of **Toptal** network.

Successfully taught **over 50** students as
a **private tutor** in a range of topics up to
college mathematics for **9 years**.
Excellent in breaking down complex
topics in simple term.

Interests include technology (fintech,
blockchain, AI, & consumer), society,
politics, business, education, and solving
puzzles.

In my free time, I do woodwork,
program, spend time with family, run,
and walk the dog

EXPERIENCE

Pilot.com🔗　　　　　　　　　　Software Engineer / 2019.03 – Present

Tasked with developing the UI for the Product Specialists, who do the bookkeeping with the app engineers make

- **Develop / test pixel-perfect UI** based on design using Vue / SASS / Jest / Vue test util
- **Communicate with stakeholders** such as designers and Product Specialists to improve existing UI and initiate new projects
- As early frontend engineer to the company, **set precedents** in coding styles, discussion practice, and other elements of company-wide engineering culture
- **Address bugs** and comments with short turnarounds
- **Re-create the dashboard** page that displays thousands of customer statuses with details about their work completion, assignee, and other information
- Make asynchronous (**AJAX**) calls to **REST API** via JavaScript Promise to update pages
- **Optimize pre-existing codebase** by modernizing code base with the newest standard of HTML/JavaScript/CSS and adding greater test coverage
- Document progress, accomplishments, and technical specs for added features and debugging

Persona.io🔗　　　　　　　　　　Frontend Developer / 2019.01 – 2019.08

Joined the company in the pre-seed stage and is brought the idea to life by helping launch the v1.0

- Made engaging and informative **web page** using Vue and its ecosystem
- Creating a **native mobile app** using **React Native**

MathTestNinja 🔗　　　　　　　　Full Stack Developer / 2018.12 – Present

A service that lets users practice infinite number of math problem in preparation for standardized math tests.

- Planned, designed, and coded it from scratch, based on 9 years of teaching experience
- Planned the short, medium, and long-term goal for the business
- **Single Page Application (SPA)**; loads partial contents as needed
- Custom input fields inspired by Google's form inputs
- Uses third party (**Stripe**) JS library and **API calls** to securely process payment　　(more🔗)

Steps Education🔗　　　　　　　Full Stack Developer / 2015.06 – 2017.12

An app used to supplement math curriculum as a private tutor.

- Used to increase profit from ~**$2,300** to ~**$6,500** a month
- **Asynchronously** loaded interactive apps
- Tracked user performance to help design personalized curriculum, for communication with parents, and for rewards to students
- Used custom math library, **Precision.js**, to overcome the limits of native JavaScript library, particularly in fraction and decimal numbers
- "Phonics" assignment uses Chrome's native text-to-speech function to help students learn phonics　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　(more🔗)

PROJECTS

Tweet Streams 🔗 – A web app that displays tweets and mentions for select accounts.

- **Asynchronously** loads initial and subsequent tweets and mentions
- Routes Twitter **REST API** from the back to the front using cloud function
- Saves and loads user preference (theme and layout) in **LocalStorage**
- Drag-and-drop to rearrange layout　　　　　　　　　　　　　　　　　(more🔗)

PrecisionJS 🔗 – A JavaScript math library that allows high level math with infinite precision.

- Uses array or BigInt calculate arbitrarily large numbers with precision
- Parses and calculates repeating decimals and fractions
- Uses series, implemented in recursion or while loop, to run trigonometric functions and higher level functions with practically infinite precision
- Is being re-written in TypeScript　　　　　　　　　　　　　　　　　(more🔗)

* Discontinued due to personal reason