

KEN ZHONG

FULL STACK SOFTWARE DEVELOPER

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Skills

SKILLS

JavaScript / ES6

React

Redux

Ruby

Rails

Python

Node.js

Express.js

PostgreSQL

MongoDB

Mongoose

jQuery

git

RSpec

HTML5

CSS / SCSS

Bootstrap

Projects

pxl-On

A full-stack single page application (SPA) for users to share and follow their best photography.

- Developed RESTful API to serve JSON to a React/Redux front-end.
- Managed PostgreSQL database and stored user uploaded photos in the cloud using Amazon AWS S3.
- Wrote mobile-first CSS using SCSS preprocessor to provide seamless user experience on both desktop and mobile devices.

PlasmaForce

A sidescrolling 2d space shooter built using JavaScript, HTML5, and lots of object-oriented programming.

- Optimized for performance by layering multiple canvas elements rendering at different refresh rates, caching sound effects and images, and cutting down O(n²) collision detection operations, resulting in smooth 60 fps animation on relatively low end computer hardware.

Pictus Whiteboard

A full-stack whiteboard app where users can create, share, and work on a canvas element in real-time.

- Implemented Websockets to update whiteboards in real time and to connect different users with a NodeJS/Express server.
- Created the schemas in MongoDB to store whiteboards and associate them with users.

Minesweeper

The classic puzzle game, built in React.

- Utilized React to render DOM components in an object-oriented manner and to increase performance.
- Developed a Node/Express API to store user high scores in a MongoDB database.

Education

App Academy

Fall 2017

Intensive full-stack web development program focusing on Computer Science fundamentals, pair programming, and unit testing.

Columbia University

Juris Doctor 2013

Science and Technology Law Review, Lawyering in the Digital Age Clinic

University of California, San Diego

Bachelors of Arts Economics 2010

Cum Laude, Phi Beta Kappa Honor's Society, Provost's Honors List

Employment

Testmasters

Instructor and Tutor

New York, NY

Feb 2016 to Sep 2017

- Taught live in-person classes for students preparing for the LSAT exam, as well as provided private one-on-one tutoring, increasing student's test scores by up to 20 percentile points.

Microsoft Corp

Public Policy Fellow

Washington D.C.

Sep 2013 to Sep 2014

- Researched and drafted memoranda on regulatory and policy issues in privacy, cyber-security, government surveillance, and telecommunications in support of Microsoft's policy outreach.
- Created and maintained Microsoft's internal legislative tracker to monitor and analyze Congressional legislation on government surveillance programs and privacy reform.