

# KEN ZHONG

## FULL STACK SOFTWARE DEVELOPER

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## Skills

### SKILLS

JavaScript / ES6

React

Redux

Ruby

Rails

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, increasing user browsing speed.
- Stored user uploaded photos in the cloud using Amazon AWS S3 and associates them with user accounts using ActiveRecord and a PostgreSQL database.
- Wrote mobile-first SCSS 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(n<sup>2</sup>) 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.*

- Utilized 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 object oriented programming, TDD, and pair programming.

### 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.

2013 to 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.