KEN ZHONG Software Developer

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SKILLS

JavaScript / ES6   Ruby   Rails   React / Redux   HTML5   CSS / SCSS   SQL

Node.js   Express   MongoDB   RSpec   jQuery   Bootstrap   git

RECENT PROJECTS

pxl-On (live: pxl-on.herokuapp.com) – *JavaScript, React, Redux, SCSS, Ruby on Rails, PostgreSQL*
A full stack single page application for users to share and follow their favorite photography.
- Utilizes a Ruby on Rails RESTful API to serve JSON to a React / Redux front-end asynchronously.
- Stores user and photo information in a PostgreSQL database and uploaded photos using Amazon AWS S3 for scalability.
- Uses mobile-first CSS with SCSS preprocessor for responsive experience on desktop and mobile.

PlasmaForce (live: kenzhong.me/plasmaforce) – *JavaScript, HTML5 Canvas, Webpack, Babel*
A 2d sidescrolling space shooter game built with object-oriented programming principles.
- Optimizes for performance by layering multiple canvas elements rendering at different refresh rates, caching sound effects and images, and cutting down $O(n^2)$ collision detection operations, resulting in smooth 60 fps animation on relatively low-end computer hardware.

Pictus Whiteboard (live: pictus-whiteboard.herokuapp.com) – *JavaScript, Node, Express, MongoDB*
A full stack whiteboard app where users can create, share, and work on a canvas together in real-time.
- Implements Websockets to update whiteboards in real time and to connect different users with a NodeJS/Express server.
- Stores user information and whiteboard state using a MongoDB NoSQL database.

EXPERIENCE

TestMasters, New York, NY   February 2016 – September 2017
Instructor
- 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, Washington, D.C.   September 2013 – September 2014
U.S. Government Affairs, Public Policy Fellowship
- 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 internal legislative tracker to monitor and analyze Congressional legislation on government surveillance programs and privacy reform.

EDUCATION

App Academy, New York, NY, *November 2017*
Intensive full-stack web development and computer science program focusing on modern web technologies, pair programming, and test-driven development (TDD).

Columbia University, New York, NY, *Juris Doctor, May 2013*
Science and Technology Law Review, Lawyering in the Digital Age Clinic, Unemployment Action Center

University of California, San Diego, CA, *Bachelors in Economics, cum laude, June 2010*
Honors: Phi Beta Kappa Honors Society, Provost's Honors List (2006-2010)