

ANDREW M. TAM

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PROFESSIONAL EXPERIENCE

Senior Front-End Developer | CBS Interactive

October 2016 – Current

Testing Infrastructure For Live Scoring Application

- Rebuilt testing infrastructure to address problems with existing system
- Integrated new features that significantly sped up development and QA efforts
- Utilized components from <http://material-ui.com> library to build application
- Prototyped application as a native macOS / PC application using electron and react/redux
- Converted application from an electron app to a webapp for ease of use across different teams via the browser
- Created express nodeJS server to mimic static API's from existing testing infrastructure
- Built nodeJS socket server to relay information between the testing dashboard and multiple browser clients

Technology Optimizations

- Reduced CSS build-time from 300 seconds to 30 seconds by replacing compass build system with gulp and node-sass
- Increased site performance and reduced JS execution time by bundling multiple JS files into a single file
- Introduced ES6 into requireJS code base by integrating a transpiler without impacting developer workflow

MLB Gametracker | <https://www.cbssports.com/mlb/gametracker/boxscore/MLB.20171031-HOU@LAD/>

- Successfully advocated for migration of core live scoring application off of Backbone.Marionette and onto react/redux
- Taught team react/redux while simultaneously spearheading the development effort and architecting the application
- Reduced codebase two-fold by rebuilding the web app responsively
- Built nodeJS server and exposed endpoints to render react components server-side

Lead Software Engineer | Rubenstein Technology Group

June 2014 – October 2016

Latham and Watkins Careers | <https://www.lwcareers.com/>

- Constructed basic HTML and CSS layout for complex homepage interaction in order to reduce javascript complexity
- Advised teammate through full HTML/CSS/javascript implementation of the homepage interaction
- Provided technical oversight for building components in a modular and reusable way with BEM and templating
- Collaborated with designers to find balance between engineering effort, technical feasibility and aesthetics

BCG Interactive Case Library | <http://www.bcg.com/Interactives/ICL/>

- Developed scoring system and tracked scoring data by posting to an external API
- Integrated static JSON data with react webapp to piece together slide flow and transitions
- Ensured cross-browser compatibility across various mobile devices and IE9 and up

Software Engineer | Rubenstein Technology Group

June 2012 – October 2014

- Constructed flexible template partials to display content from proprietary CMS
- Scripted in perl to perform data manipulations or API requests against CMS

PERSONAL PROJECTS

Personal Website | <http://www.andrewmtam.com/>

Current

- Designed and themed website after the NYC subway system
- Utilized css transforms and javascript animations to create a parallax effect while changing stations
- Optimized animations and minimized layout thrashing by utilizing GPU compatible css properties
- Created custom static site generator to leverage server-side rendering via React

Laser Game | <https://lasers.firebaseio.com/>

Winter 2015 – Summer 2016

- Handled routing between various views with react-router; organized data flow with react and redux
- Created socket connections between sessions for real-time feedback and interaction between users using firebase

Violin Game | <https://violingame.firebaseio.com/>

December 2015

- Built mobile web app using react to teach myself to read sheet music, and learn violin finger positioning

SKILLSET

React, React native, React-router, Redux, Reselect, Firebase, Webpack, Browserify, Electron, Gulp, CSS3, SASS, BEM, HTML5, ES6 || Node, Couchbase, Elasticsearch, Postgres, Perl, PHP

EDUCATION

The Cooper Union for the Advancement of Science and Art | New York, NY

Bachelor of Engineering in Civil Engineering; Graduated: May 2012

- G.P.A. (Cumulative): 3.9/4.0
- The Cooper Union, Full-tuition academic scholarship, 2008 – 2012
- Dean's List: Fall 2008 – Spring 2012
- Courses: Data Structures and Algorithms I | Databases | Software Engineering | Interactive Engineering Graphics