# KYLE SUN

(650) 391-6615     xyasun@gmail.com     **PORTFOLIO**     **GITHUB**     **LINKEDIN**

**SKILLS**   **Javascript, React.js, Ruby on Rails, Node.js, Express.js, Postgres, MongoDB, SQL, AWS, HTML, CSS**

## PROJECTS

**Jumpstarter**   (Ruby on Rails, ReactJS, Postgres, AWS)                                                                        live | github
*A platform for listing and backing projects, using React frontend and Rails backend on PostgreSQL with image hosting on AWS S3*
- Implemented infinite scrolling using throttled scrolling event with a dynamic paginator to fetch additional data
- Engineered a custom search algorithm to handle keyword search which filters results from various data-types using regex
- Established file uploading feature by setting up Active Storage to attach image files hosted on AWS S3 cloud storage to records on PostgreSQL database

**Terminate the Tower**  (MongoDB, ExpressJS, ReactJS, NodeJS)                                                       live | github
*A rogue-like deck-building game featuring random map generation, using React frontend and Node/Express backend*
- Developed a customized polytree data structure to simultaneously handle validation of the user's next move and store data specific to the user's current position
- Authored algorithms to generate map entities pseudo-randomly from a set of customizable parameters
- Utilized Express.js and AXIOS API calls to fetch data from MongoDB and formatted into JSON

**Guardians**   (NodeJS, HTML5 Canvas)                                                                                             live | github
*A tower-defense game inspired by Plants vs. Zombies, built on Javascript and HTML5 Canvas*
- Created animation effect by applying requestAnimationFrame to constantly update the canvas draw function
- Developed interactive dragging feature by utilizing mouse events with coordinates relative to the canvas element
- Incorporated multiple sprite sheets to dynamically render different sprites at different actions
- Implemented an interactive radio chart using canvas for data visualization of character's stats

## EXPERIENCE

**Tax Associate**, *Global Mobility Service*
*PriceWaterhouseCoopers*                                                                                                       Oct 2017 - Dec 2018
- Designed spreadsheets to automate data entry and tax calculation using Excel Macros and VBA
- Analyzed payroll data to identify potential tax issues and to provide calculations on estimated tax liability
- Conducted tax research and provided solutions to 5 complex cases involving foreign assignments, vesting stock options, amended returns, etc.
- Point of contact for several accounts, responsible for client communication, requesting data, and addressing inquiries

**Finance Tutor**, *University of Southern California*                                                                   Jan 2016 – May 2016
- Conducted weekly tutoring sessions to help 5-10 students taking Business Finance better understand lectures

**Director of Technology**, *USC Accounting Society*                                                                   Aug 2015 - May 2016
- Webmaster for Accounting Society during 2015-2016 school year, responsible for building and managing the club website

## EDUCATION

**App Academy** - Full Stack Software Engineering  |  2019 - 2020
**MS, University of Southern California -** Taxation  |  2016 - 2017
**BS, University of Southern California** - Business & Accounting  |  2013 - 2016

## ADDITIONAL INFORMATION

**Work Status** - US permanent resident
**Interests** - Hiking, Snowboarding, Game Development, Traveling, Sudoku, Photography, English Premier League