XINGYU (KYLE) SUN

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

SKILLS

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

PROJECTS

Jumpstarter (Ruby on Rails, ReactJS, SQL)   live | github

A clone of the crowd-funding platform Kickstarter, using React frontend and Rails backend on Postgres with image hosting on AWS S3

- Implemented infinite scrolling by combining throttled scrolling event with a dynamic paginator to auto-load content when users scroll to the bottom of the page
- 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 front-end and Node / Express backend on MongoDB

- Developed a customized polytree data structure to simultaneously handle validation of the user's next move and storing data specific to the user's current position
- Authored algorithms to generate map entities pseudo-randomly from a set of customizable parameters, in order to strike a balance between predictability and freshness each playthrough
- Designed asynchronous/await functions utilizing AXIOS API calls to fetch user request 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 updating the elements drawn to the canvas
- Developed interactive dragging feature by combining multiple event listeners with the canvas draw function
- Incorporated multiple sprite sheets to dynamically render the character's current action
- 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

- Prepared China IIT withholding calculations and performed filings within due date for monthly and annual tax returns
- Performed tax estimation for 5 complex cases in foreign assignments, vesting stock options, amended returns, etc.
- Point of contact for several accounts, responsible for communication with the client on requesting payroll, informing recent tax updates, and addressing client's inquiries on tax-related matters
- Assisted in preparing China SAFE annual quota application and quarterly disclosure reports
- Designed spreadsheets to automate data entry and tax calculation using Excel Macros and VBA

Peer Tutor - Finance

University of Southern California, Marshall School of Business   Jan 2016 – May 2016

- Conducted weekly tutoring sessions to help students taking Business Finance better understand lectures
- Researched on effective learning strategies and presented to supervisors and peers

EDUCATION

Software Engineering - *App Academy | Oct 2019*

Master of Taxation - *University of Southern California, Leventhal School of Accounting | 2016 - 2017*

BS Business / Accounting - *University of Southern California | 2013 - 2016*