

# XINGYU (KYLE) SUN

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[PORTFOLIO](#)

[GITHUB](#)

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## SKILLS

Javascript, React, Redux, Ruby on Rails, Express.js, MongoDB, SQL, 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