

# Yuva Chang

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## Skills

**Proficient:** Javascript, React, Redux, Node.js, HTML5, CSS3, SASS, Git, Firebase + Cloud Firestore, Git, Restful API  
**Knowledgeable:** Express, PostgreSQL, Sequelize, MongoDB, Mongoose, Expo, React Native, Heroku, Webpack  
**Other:** GitHub Pages, SPA, Rhino, V-Ray, Photoshop, Illustrator, Indesign, AutoCAD, SketchUp

## Projects

**Minesweeper** | July 2019

**React, Cloud Firestore, Node.js**

Deployed: <https://minesweeper.yuvachang.com> | GitHub: <https://github.com/yuvachang/minesweeper>

Web app game replicating the original with 3 levels of difficulty and a live leaderboard stored in Cloud Firestore.

- **Firestore** database and endpoints for storing and displaying top scores with listener for leaderboard updates.
- **React** for game state and window event listeners to track mouse R+L clicks for setting flags and opening cells.

**Split** | May 2019

**React, Redux, Firebase, Cloud Firestore, Node.js**

Deployed: <https://split.yuvachang.com> | GitHub: <https://github.com/yuvachang/split>

Expense management app with Firebase BaaS and React. Users track individual or group spendings and itemize costs.

- **Firebase OAuth**, login with email or Google account. Deployed through **Firebase Hosting**.
- Implemented **Firestore** database querying, notifications and data management with **redux-thunk** middleware, and multi-user live editing of expense items with Firestore listeners.
- **Mobile responsiveness** and styling done with **SASS** and media query breakpoints.

**EZ-Split** | Capstone | March 2019

**React, Redux, Node.js, Express, Socket.IO, Sequelize, PSQ, Mongoose, MongoDB, Passport, Heroku**

Deployed: <https://ezsplit.herokuapp.com> | GitHub: <https://github.com/EZSplit/EZSplit>

Full stack web app using sockets and OCR API to upload and itemize receipts. Users collaborate to split a shared bill.

- Set up and implemented **Socket.IO** for pub/sub updates of receipt item changes.
- Created **React** components for displaying and multi-user editing of receipt items with immutable state through Redux.
- Integrated (Taggun) OCR API and **Restful API** endpoints for **JSON** data.
- Created **MongoDB** schemas and queries for image and user data in Javascript using **Mongoose ODM**.

**GitHub Browser** | Stackathon | March 2019

**React Native, Redux, Node.js, Android Studio**

Video demo: <https://bit.ly/2XCKdhs> | Github: [https://github.com/yuvachang/RN\\_GitHub\\_Browser](https://github.com/yuvachang/RN_GitHub_Browser)

Android app to view GitHub user repositories and subdirectories.

- React Native Navigation for folder navigation and user flow, basic authentication for user-login.

## Work Experience

**Consultant** | Freelance architectural rendering | 01/2018 - 12/2018

- Rendered interior and exterior perspectives for client or competition based works.

**Junior Architect** | Shakespeare Gordon Vlado Architects | 11/2015 - 10/2017

- Shaped the 2D to 3D workflow and helped transition 3D modeling from SketchUp to Rhino+Vray.
- Coordinated and met with contractors and manufacturers to maintain schedule on residential work.
- Worked on CAD documents, specs, and digital work for residential projects and multi-family developments.
- Put together competition deliverables to meet submission deadlines.

**Design Intern** | Redtop Architects | 04/2014 - 08/2014

- Marketing and client work, construction drawings, model building.

## Education

**Fullstack Academy of Code** | Immersive coding boot camp | 01/2019 - 04/2019

*Full stack Javascript web development*

**University of Michigan** | Taubman College of Architecture | 2013-2015

*Master of Architecture*

**University of Florida** | SOA | 2008-2013

*Bachelor of Design in Architecture, Minor in East Asian Languages and Literature (Japanese)*