

# SOPHIA Y. LIU

## Web Developer

### SKILLS

RUBY • RAILS • JAVASCRIPT • PYTHON  
REACTJS • REDUX • HTML5 • CSS3 • SASS  
SQL • GIT • PHOTOSHOP • ILLUSTRATOR

### AT A GLANCE

I am a self-taught programmer who enjoys creating imaginatively and obsessively. My background in education provides me with insight about how to build intuitive interfaces that can be enjoyed by all users

### CONTACT ME

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GITHUB



LINKEDIN

### PERSONAL PROJECTS

DEC 2016  
JAN 2017

- **TRACKTIVE** (Ruby on Rails, React, Redux, SQL, JavaScript) Live • Github

#### Full-stack, single-page playlist creation and storage app that emulates 8tracks

- Combines Spotify API endpoints and JavaScript promises to rapidly and dynamically build a shuffled playlist and corresponding playlist page.
- Ensures database security by validating user authentication on the back-end.
- Responsive design optimizes user experience for different devices.

FEB 2017  
MAR 2017

- **SLEEP DEFENDER** (JavaScript, Photoshop) Live • Github

#### JavaScript bullet evasion game inspired by Defender (classic space shooter game)

- Uses PixiJS to optimize DOM rendering and HowlerJS to enrich player experience by attaching sound effects to game and keyboard events
- Handles different game scenes (i.e. main menu, pausing, active game play, end scenes) as distinct states of the program to avoid conflicts and bugs.

MAR 2017

- **OPEN** (React, Redux, JavaScript, Photoshop) Live • Github

#### Chrome extension that provides instant lookup of businesses' basic information

- Integrates Yelp Fusion API with geolocation based searching to return information on nearby businesses.
- Designed components to dynamically render content depending on whether the business is open or closed.

CURR

- **STEAM STREAM** (Firebase, React, Redux, JavaScript) Github

#### Realtime news and release updates for games

- Utilizes the API of multiple gaming databases (i.e. Steam, IGDB, Giant Bomb) to collect news on genres or platforms a user subscribes to
- Dynamically update the feed with newer articles using Firebase

### EDUCATION

2010  
2014

- **BACHELOR OF ARTS**

#### Environmental Science, Wellesley College

- Graduated cum laude (>3.7 GPA)
- Completed National Science Foundation research internships with the University of Arizona and the Donald Danforth Science Center in St. Louis.
- Albright Fellow, Dorothy Thorndike Fellow.

JAN 2016  
CURR

- **WEB DEVELOPMENT (SELF STUDY)**

- Used variety of online resources (Stack Overflow, Github repositories, etc.) to learn different languages and frameworks through building basic apps.
- Independently designed and deployed four personal projects over 3 months