

# Wayne Su

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San Francisco, CA

[Portfolio](#)

[Linkedin](#)

[GitHub](#)

## Skills

React.js, Redux, Express.js, Gatsby.js, Node.js, JavaScript, HTML5, CSS3, SASS, Ruby, Ruby on Rails, jQuery, SQL, PostgreSQL, MySQL, MongoDB, GraphQL, Adobe Photoshop, Adobe Illustrator, AWS, Heroku, Webpack

## Projects

**Gwaphics** (React / Redux, Rails, PostgreSQL, Express, Webpack, RESTful API, SASS, AWS, Heroku) [live site](#) | [github](#)

*An online graphical design tool inspired by Canva for creating and sharing designs effortlessly*

- Incorporated drag-and-drop/rich-text editing features to enhance user experience in creating designs.
- Utilized Rails' nested attributes and polymorphic associations to achieve minimal backend API calls to a relational PostgreSQL database ensuring scalability.
- Built an external Express server running a headless chromium browser to dynamically create thumbnails of user designs to optimize load speed and user experience.

**Virtual Tabletop** (MongoDB, Express, React, Node.js, Socket.IO, RESTful API, SASS, AWS, Heroku) [live site](#) | [github](#)

*A collaborative sandbox to simulate grid-based tabletop environments online*

- Designed a modularized operating-system-like UI utilizing React's higher-order components to build widgets/modals that are collapsible and compatible with any viewport size for better reusability.
- Coordinated the frontend global state to receive dispatches from either websockets or HTTP responses, ensuring minimal errors/sync between multiple clients through customizing JavaScript promises.

## Experience

**Adjunct Research Fellow** | Spatial and Environmental Technology Foundation, Taiwan. | Oct. 2016 - Feb. 2019

- Developed a dynamic travel itinerary planning application utilizing weather information and routing APIs to contextually recommend an optimal tour plan. (UI/UX, React, Bootstrap)
- Built an optimized web-crawler for tourism activities to retrieve POI open-hours, (Python)
- Presented results and discussions in a paper session at American Association of Geographers' annual meeting.

**Contract Web Developer** | Independent, Taiwan. | Jan. 2015 - July 2018

- Developed websites for two consecutive international academic conferences, includes registration forms for 400+ users, login authentication and sending emails via SMTP. (PHP, MySQL, HTML, CSS, RWD)
- Website & Logo redesign for a newly formed academic association, deployed as a WordPress custom theme for content maintainability. (CMS, Bootstrap, Nginx, PHP, MySQL, RWD)

**Internship in Product Management** | Supergeo Technologies Inc., Taiwan. | July 2015 - Sept. 2015

- Rebuilt the end-to-end testing process of "SuperGIS Server", a back-end component made for publishing GIS services, improved reliability and scalability through modularizing test cases and scripts.
- Assisted in designing the requirements specification of "SuperGIS Web Mapper", illustrated UI mockups.
- Coordinated bi-weekly webinars as workshops and presentations to showcase software capabilities.

## Education

**App Academy** | Spring 2020 | San Francisco, CA

Immersive software development course with focus on full stack web development

**National Taiwan University** | Taipei, Taiwan

M.S. in Geography | Sept. 2015 – Jan. 2019 | Emphasis in Geographic Information Science.

B.S. in Geography | Sept. 2011 - July 2015