

Winggo Tse

winggo.tse@gmail.com

(415) 971-5722

winggo.us

linkedin.com/in/winggotse

github.com/winggo

My interests lie in intuitive software design and development with emerging technologies, and how we can leverage them to educate and benefit others in the modern era. I aspire to influence public perception of the world through software, digital media, and data.

SKILLS

- **Languages** – JavaScript ES2020, TypeScript, Python, Java, HTML5, CSS3, SASS, SQL
- **Technologies** – React.js, Node.js, Redux.js, Express.js, REST, Webpack, Babel, Jest, Docker, Git, Firebase, CI/CD
- **Data** – PostgreSQL, MySQL, Firestore, AWS S3, Redis, MongoDB, Sequelize.js

EXPERIENCE

Helpful Engineering, Frontend Software Engineer – Open Source

04/2020 – Present

- Architected and developed open source mobile-first web app Reach4Help, built to facilitate a global network of responses between non-profits and people in need, such as bringing medication to the immunocompromised
- Crafted fine-tuned user interfaces and managed application state with **TypeScript, React, and Redux** using the Ducks model architecture to increase modularization
- Handled client-side data integration logic and user authentication using **Firebase and TypeScript**
- Created and refactored reusable atomic components for project-wide implementation between modules

Successhub, Full Stack Software Engineer Intern

04/2020 – Present

- Led frontend systems development of Successhub's new Employer Platform, a job and company portal connecting university talent directly to employers, expanding within the hiring space of LinkedIn and Handshake
- Developed secure web services using **TypeScript, Node.js, Express.js, Sequelize.js, and PostgreSQL**, built frontend components using **React** with **Redux**, and defined **RESTful API** for integration

Successhub, Software Engineer Intern

01/2019 – 04/2019

- Developed core features such as school courses and staff profiles on the University Platform, a university portal for staff to facilitate in student affairs, such as increasing student placement with academic advisors and maximizing student retention rates
- Built and refactored internal **RESTful API**, data validation middleware, and backend services with **Node.js, PostgreSQL, and AWS** using object-relational mapping (ORM) with **Sequelize.js**, thereby increasing database portability and standardization
- Implemented essential features on the front-end with **React and Redux**, with emphasis on clean code practices and scalability in a startup environment
- Participated in Agile development methodology, documentation, testing and ongoing support of systems

EDUCATION

University of California, Santa Cruz, B.S. Computer Science with Honors

06/2019

PROJECTS

Professional Portfolio, Progressive Web Application

02/2020

- Progressive web app (PWA) to showcase my projects, blogs, photography, and development interests in various viewports built with **React, TypeScript, and responsive CSS**
- Increased user performance metrics through code splitting and lazy loading by up to 2x

Digital Newsletter, Single Page Application

12/2019

- Single page web app (SPA) showcasing my experiences over the past year designed with modern UI/UX
- Developed with **React** and animation libraries such as **React-spring** to feature smooth transitions and the parallax effect for a diverse range of media types

Glorify, Google Chrome Extension

01/2019

- Chrome browser extension built with **React** which displays a unique background and message on every new tab load, currently in the Chrome Web Store rated 5 stars with over 100 users