

# Winggo Tse

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Passionate about 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, Node.js, Redux, Webpack, Babel, Cypress, Jest, Mocha, Enzyme, Firebase, Git, Docker, CI/CD, Sentry
- **Data** – PostgreSQL, MySQL, Firebase, AWS, Redis, MongoDB

## EXPERIENCE

### Anvil Foundry, Software Engineer Intern

07/2020 – Present

- Covered over 80% of Anvil's paperwork automation platform with integration testing using **Cypress**, catching several feature breaking bugs before production releases, over the span of one month
- Reduced test suite run times in CI by a factor of 6 and sped up **Webpack** builds by a factor of 3 through parallelization, build profiling, module caching, and removal of legacy loaders, saving hours of development time
- Expanded the consumer base of Anvil's signature technology to 3<sup>rd</sup> party developers by building a **Node.js** client
- Configured automated source-map uploads to **Sentry** on every **Docker** image build on CI, enabling the team to pinpoint problem areas in the code live on every issue

### Helpful Engineering, Software Engineer – Open Source

04/2020 – 07/2020

- Developed and launched open source mobile-first web app Reach4Help, with a fully remote team from around the world, to facilitate a global network of responses between non-profits and people in need
- Wrote **Google Cloud Functions** paired with **Jest** unit tests to update and delete large data sets server-side, eliminating computation intensive tasks client-side while leveraging the strengths of serverless architecture
- Crafted streamlined, consistent user interfaces with **TypeScript, React, and Redux** using the Ducks model architecture, increasing project scalability
- Introduced new user authentication methods such as email and Google sign-up to diversify registration processes using **Firebase and TypeScript**, resulting in increased user acquisition

### Successhub, Full Stack Software Engineer Intern

01/2019 – 04/2019, 04/2020 – 07/2020

- Led 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 foundational web services using **TypeScript, Node.js, Express.js, Sequelize.js, and PostgreSQL**, built the front-end using **React** with **Redux**, and defined **RESTful API** for integration

## PROJECTS

### Professional Portfolio, Progressive Web Application

2020

- Self-designed progressive web app (PWA) showcasing my projects, blogs, photography, and other interests on web and mobile viewports built with **React, TypeScript, and responsive CSS**
- Improved SEO and user performance metrics through code splitting and lazy loading by up to 2x

### Digital Newsletter, Responsive Web Application

2019

- Single page web app (SPA) designed with creative UI/UX showcasing my past year experiences
- Showcased smooth animations and the parallax effect using **React** and animation libraries such as **React-spring** for a diverse range of media types and viewports using **CSS Grid**

### Glorify, Google Chrome Extension

2019

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

## EDUCATION

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

2019