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, Express.js, Webpack, Babel, Jest, Enzyme, Firebase, Git, Docker, CI/CD, Datadog
- **Data** – PostgreSQL, MySQL, Firestore, AWS S3, Redis, MongoDB, Sequelize.js

EXPERIENCE

Helpful Engineering, Frontend Software Engineer – Open Source   04/2020 – Present
- 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, such as bringing medication to the immunocompromised
- Crafted streamlined, consistent user interfaces and managed application state with ***TypeScript, React, and Redux*** using the Ducks model architecture, increasing project scalability and reducing onboarding times
- Introduced new user authentication methods such as email and Google sign-up to shorten registration process, thereby increasing user acquisition, using ***Firebase and TypeScript***
- Reduced hours spent identifying errors and low performance areas by integrating **Datadog** telemetry services

Successhub, Full Stack Software Engineer Intern   04/2020 – Present
- Led frontend 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 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, Sequelize.js, and AWS*** using object-relational mapping (ORM), increasing database portability
- Implemented mentioned features on the frontend with ***React and Redux***, saving review and refactor hours by emphasizing clean code practices, scalability in a startup environment, and ***Agile*** development methodology

PROJECTS

Professional Portfolio, Progressive Web Application   2020
- Independently designed progressive web app (PWA) showcasing my projects, blogs, photography, development interests in 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, Single Page Application   2019
- Single page web app (SPA) designed with creative UI/UX showcasing my past year experiences
- Featured smooth animations and the parallax effect using ***React*** and animation libraries such as ***React-spring*** for a diverse range of media types using ***CSS Grid***

Glorify, Google Chrome Extension   2019
- Momentum inspired Chrome browser extension built with ***React*** which displays a unique background and message 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