

## EXPERIENCE

### **TikTok, Software Engineering Intern, Singapore**

**May 2023 - Aug 2023**

- Collaborated on revamp of TikTok's moderation page, leveraging React, TypeScript with SASS and Go, to create pixel-perfect reusable components resulting in a 50% improvement in overall user satisfaction.
- Worked with Quality Assurance and Product Managers to conceptualize and deliver a solo feature, utilizing React with Go, introducing an alert system for handling incorrect punishments, resulting in 90% reduction of issue tickets – understanding the product and software development life cycle.
- Delivered informative presentations on complex technical topics, including React internals (renderer), bundlers (Webpack, Rollup), and modern state management, showcasing in-depth knowledge and expertise in these areas.
- Mitigated technical debt by incrementally refactoring crucial parts of codebase. Adopted best practices to build modern, and reusable components, resulting in a significant enhancement in code quality and maintainability.

### **Datature, Frontend Engineering Intern, Singapore**

**Jan 2023 - Apr 2023**

- Translated React Class Based Components to Functional Components to improve code readability and maintainability, decreasing file sizes to less than 500 lines.
- Developed scalable Customer Data Platform (CDP) code utilizing JavaScript event delegation writing asynchronous functional code to track events. Established a pipeline and Dashboard to present data, increasing business insights.

### **CVWO, Software Engineering Intern, Singapore**

**May 2022 - Aug 2022**

- Spearheaded upgrade from Rails 5 to 6 and Ruby 2.5 to 2.7, ensuring zero regressions and boosting performance and security of Lions Befrienders' system, currently being used by over 2,500 staff, serving over 20,000 seniors.
- Conceptualized and develop a Progressive Web Application for senior citizens to sign up for activities at Ageing Centres, reducing workload of volunteers using React, TypeScript, Ionic with Ruby on Rails and PostgreSQL.

## CO-CURRICULAR ACTIVITIES

### **EcoQuest, Google Solutions 2023 Top 100 of 2000**

**Mar 2023 - Aug 2023**

- Devised a community-based game with TypeScript, React, Ionic, with Node.js, PostgreSQL, Express and Python, incorporating machine learning for image detection to validate user submissions. Engaging in eco-friendly activities.
- Integrated cloud-based technologies, such as Google Cloud and Google Single Sign-On (SSO), into system architecture, leveraging capabilities to enhance scalability, security, and user authentication in application.

### **Google Developer Students Club, Full Stack Engineer**

**Aug 2021 - Aug 2023**

- Built a React, TypeScript-based online learning platform aided dyslexic children with learning difficulties, leading to notable advancements in educational progress.
- Created relational databases with PostgreSQL, along with REST APIs with HTTP requests utilizing TypeScript and ExpressJS with Node.js, enabling secure data storage, retrieval, and seamless communication between systems.

## EDUCATION

### **National University of Singapore (NUS)**

**Aug 2021 - May 2025**

#### **Bachelor (Honors) of Computing in Computer Science, Penultimate Year**

*Relevant Coursework:* Data Structures and Algorithms (Java), System Design and OO Principles (Java), Computer Networks (Python), Databases Design and SQL, Software Engineering (Java), Operating Systems (C, C++)

### **University of California, San Diego (UCSD)**

**Sep 2023 - Jan 2024**

#### **Bachelor of Computing in Computer Science Exchange Program, Fall 2023**

## SKILLS

- *Languages:* HTML • JavaScript • TypeScript • Java • Go • Ruby • CSS / SASS • Python • C • SQL
- *Libraries, Frameworks, Tools:* PostgreSQL • Express • Sequelize • TailwindCSS • Redux • React • Storybook • NextJS • Rails • Ionic • Material UI • BlueprintJS • Git • AWS EC2 • Lambda • API Gateway • DynamoDB • Google Cloud Bucket • Google SSO • Unix Shell

## WORK AUTHORIZATION

- Eligible to work in the USA without Visa Sponsorship under the **J-1 Post-Completion Academic Training Visa**.
- Available to work full time for 12 weeks or more outside of university term time for 40 hours a week.