Hanlin Cheng

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Skills

- **Languages:** Javascript, Typescript, HTML5/CSS3, Java, C++, Python
- **Frameworks:** React, Node.js, Android, Cloud Foundry, CUDA, Git, Figma, Jira

Experience

VMware Inc. (Formerly Pivotal Software) - IT Developer Intern   Winter 2020

- **Pair-programmed** with **TDD**, iterative planning, and agile methodoligies for an internal inventory check-out system using **React**, **React Router**, and **Jest**
- Wrote and deployed **Javascript** programs to automate parts of the app migration process for **200+** internal applications from Pivotal to VMware
- Built a team Slack chatbot application in **Cloud Foundry** and gained exposure to cloud computing architecture with **Python** scripting

Civic Tech Toronto - Web Developer   Feb 2020 - Present

- Leading the development of a **React** website for the Accelerator Project, a non-profit organization focused on mentoring underhoused youth to increase usability and branding
- Developing full-stack website components from start to finish with **Javascript**, **HTML/CSS**, and **Node.js**

Sunnybrook Research Institute - Software Development Intern   Summer 2019

- Revamped Matlab data pipeline scripts into **C++** parallel computations by levaraging the **CUDA Driver API** to rework focused ultrasound treatment-monitoring program
- Developed CUDA kernels to reduce memory transfer requirements by **48 times**
- Conducted NSight Visual Profiling analysis to determine pipe utilization metrics and bottlenecks to reduce execution dependency

Projects

ecolens - Ellehacks 2020 Most Innovative Hack Runner-Up   February 2020

- Designed and developed a **Android** application that views a garbage item through a real time video stream and suggests creative crafts
- Built using Android Studio and implementing **Firebase ML** and **Google Cloud Auto ML** for image detection

Allertgen - Deltahacks 2020   January 2020

- Developed a Flask web application with **Python** implementing **GCP's Vision, AutoML,** and **Translation** APIs in **Google Cloud App Engine** that identifies if different food items are allergy risks

hanlincheng.me - Personal Website   April 2020

- Built a **Gatsby.js** site with **React**, **Typescript**, **Javascript**, and **React Hooks** to display a landing page for my personal projects as well as a blog for fast Markdown content rendering

Education

University of Waterloo - Candidate for BASc. in Systems Design Engineering   Expected 2024

- Relevant Coursework: Data Structures & Algorithms, Digital Computation, Human Factors in Design
- Community: Member of Women Who Code Toronto, University of Waterloo Intramural Soccer

Interests

- **Watercolour painting, @forcontext podcast content creator, Hiking, the San Antonio Spurs**