

Anthony Lai

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EXPERIENCE

University of Ottawa – BioMakerspace

June 2020 – Present

Full Stack Software Developer & Software Team Lead

- Leading a small team of developers to build the web presence of the BioMakerspace initiative
- Learned about the full software development process and understanding how to work with a client's needs and wants
- Developed a **RESTful API** with **NodeJS** which handles access to data from a **Firestore** database and built the interfaces for users to see simulator and workshop content with **React**
- Established **continuous integration** with **GitHub Actions** which tests and catches errors on all proposed code changes
- Developed the application for French and English internationalization, implemented **i18n** packages and standards

Solace

Sept 2019 – Dec 2019

Software Developer Intern

- Full Stack Developer working on Solace Cloud programming in **Aurelia** and **Java Spring**
- Improved and fixed multiple features on the user interface of the cloud consoles
- Increased the modifiable parameters of a messaging service by using existing **RESTful APIs** to give users more control and to increased the parallels between the newer cloud microservices product and the older software product
- Split search microservices which implement **Elasticsearch** by separating components and databases, improving maintainability, modularity and performance of Solace Cloud

Wind River Systems

Jan 2019 – Apr 2019

Software Engineer Intern

- Developed and acted as the feature owner of the automated infrastructure system for analysis of the Helix Virtualisation Platform
- Worked in an **agile** environment using **Jira** with daily Scrum meetings and retrospectives
- Incorporated new checks which evaluates the Helix Platform for stability, resiliency, and performance which gave the members of the team new insight on the limits of the platform
- Improved coverage of the system analysis by repairing and updating the existing modules which were writing in **Python** and ran by **Jenkins**
- Presented all my developments and knowledge on that automation infrastructure to my team prior to leaving
Experienced working with the real time operating system (**RTOS**), **VxWorks7** and a **Linux** development environment

PROJECTS

Cross Copy

- Developed a cross platform clipboard application, with the goal of use on any platform and any device
- Utilized the **Firebase** suite of **Firestore** database, authentication, storage, hosting, and serverless functions for the **API** written in **NodeJS** with **Express**
- Built a web application with **React** and **Redux**. In development, a mobile application using **Flutter**

EDUCATION

University of Ottawa

Sept 2017 – Present

B.A.Sc, Software Engineering Co-op — 3.85/4.0 GPA

- Software Coursework — Data Structures and Algorithms, Operating Systems, UI/UX Design, SQL Databases