

YaHeng Su

✉ yaheng.su1@gmail.com | 🏠 yaheng.io | 🌐 yahengsu | 📺 yahengsu

Technical Skills

Languages: C // C++ // Go // Java // JavaScript // Python // Swift

Technologies: Android // Docker // Git // gRPC // iOS // Linux // Node // React // TypeScript

Education

University of Waterloo

BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING

Expected May 2022

- **Selected Coursework:** Algorithms, Compilers, Concurrency, Databases, Networks, Operating Systems
- **Clubs and Activities:** Competitive Programming, Hip Hop Club, Hip-Hop Performance Team

Experience

Squarepoint Capital

Montreal

SOFTWARE ENGINEERING INTERN - MARKET DATA

Jan 2021 - Apr 2021

- Added an internal data service and an authentication service to a deterministic testing framework in **Python** and eliminated inconsistencies observed during service endpoint regression testing
- Developed a high performance multi-process query engine using **C++** and **gRPC** to benchmark end-to-end latency and throughput for core data services

Major League Hacking

Remote

MLH FELLOW - WEBVERSE

Jun 2020 - Aug 2020

- Contributed to open-source WebXR frameworks in **Javascript** and **Node.js** under the Webaverse organization
- Spearheaded development of a comprehensive testing framework and CI/CD using AVA.js and Github Actions

SecureKey Technologies

Toronto

SOFTWARE DEVELOPER INTERN - PRODUCT

Sep 2019 - Dec 2019

- Added a feature to allow for backwards compatibility between API versions to back-end infrastructure in **Go**
- Reduced transaction error rate in **blockchain-backend** interface by adding stricter data integrity checks
- Reduced weekly support tickets by 20% by adding a delete/reset account feature to the web client in **React**

SecureKey Technologies

Toronto

SOFTWARE DEVELOPER INTERN - FULLSTACK

Jan 2019 - Apr 2019

- Designed a decentralized identifier model and developed a suite in Node.js and React to test model features
- Created an encrypted wallet service using Node.js to create and store verifiable credentials in CouchDB instance

TD Bank Group

Waterloo

SOFTWARE DEVELOPER INTERN

May 2018 - Aug 2018

- Developed views and features for **iOS** banking apps in **Swift** using the UIKit, ARKit, and Vision libraries
- Reduced internal API implementation code by 3x by developing an iOS SDK deployed to CocoaPods

Projects

Melodica

Go

- Analyzes your current mood and based on your recent song history and suggests new songs
- Uses Spotify API for sentiment analysis and GCP for serverless backend functionality

Fellowboard

Javascript

- Fullstack social media app for sharing learning resources during the MLH Fellowship
- Users can create, share, and view posts with others and pin useful posts on their profiles

Sweet Home

C++

- AR application that lets you visualize home remodelling and interior design
- Uses OpenCV and AR detection algorithms to spatially overlay objects given a video stream