Andrew Jemin Choi

Canadian Citizen USA Permanent Resident

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Education _____

University of Toronto

MASTER (MSc) IN COMPUTER SCIENCE (IN PROGRESS)
BACHELOR (BASc) IN COMPUTER ENGINEERING WITH HONOURS

Spring 2021 (Expected)
Spring 2019

Work Experience _____

Google Remote (Sunnyvale, CA)

SOFTWARE ENGINEERING INTERN

- Worked on the Global Networking team to develop a new gNMI service in Go used to monitor networking information
- · Created an internal server that asynchronously streams BGP data and lets clients subscribe to events using OpenConfig

Amazon Web Services (AWS)

Seattle, WA

Summer 2020

SOFTWARE DEVELOPMENT ENGINEER INTERN

Summers 2018, 2019

- Worked on the DynamoDB team to develop an internal Java client library to monitor and replace unhealthy hosts for table indexing requests (Summer 2019)
- Integrated tool with a distributed job scheduler to automatically trigger stale host checks and output logs
- Worked on the AWS Internet of Things (IoT) team to create Python tools to streamline the on-boarding process for devices, reducing user wait times by 60% (Summer 2018)
- Implemented an Android App in Java that was used as a reference model for customers to show how to authenticate and authorize devices on to AWS IoT

Safran Peterborough, ON

SOFTWARE ENGINEERING INTERN

Summer 2016

- Developed a Python program to parse and verify aviation requirements, reducing human errors by ~50%
- · Reviewed software architecture diagrams and wrote documentation for avionic code written in C and Assembly

Research and Teaching _____

University of Toronto

Toronto, ON

RESEARCH STUDENT, BLOCKCHAIN LAB

Fall 2019 - Present

- Researching novel methods to accelerate storage performance in Blockchain systems, supervised by Prof. Fan Long
- Developed performance benchmarks and traces for Ethereum clients to evaluate the effectiveness of a run-time smart contract validation tool (*Published in PLDI 2020*)

University of Toronto

Toronto, ON

TEACHING ASSISTANT

Fall 2016 - Present

- Managed four groups of students to build a large graphical mapping software in C++ and taught students about various software development tools such as git, gdb, unit testing, and profiling (ECE297 Communication and Design)
- Designed new assignments and automated testers in C++ and Rust to teach students about object-oriented programming, concurrency, and databases (ECE326 Programming Languages)
- Received "Outstanding" TA ratings from course surveys, with an average rating of 6.87/7

University of California, Los Angeles (UCLA)

Los Angeles, CA Summer 2017

RESEARCH STUDENT, STARAI LAB

- Explored topics in artificial intelligence and researched ways to perform faster inference on Bayesian Networks
- Developed a C tool that finds marginal probabilities by compiling feed-forward arithmetic circuits, achieving 8-times speedup compared to naive backpropagation