Andrew Jemin Choi

Canadian Citizen USA Permanent Resident

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Education _____

University of Toronto

MASTERS (M.Sc.) IN COMPUTER SCIENCE (IN PROGRESS) BACHELORS (B.A.Sc.) IN COMPUTER ENGINEERING WITH HONOURS May 2021 (expected) May 2019

Work Experience _____

Google Remote (Sunnyvale, CA)

SOFTWARE ENGINEERING INTERN

Jun - Sep 2020

- · Worked on the Global Networking team to develop an internal OpenConfig service in Go to aggregate and monitor routing data
- · Created a client that asynchronously streams events from the service using gNMI/gRPC APIs to log abnormal network activity

Amazon Web Services (AWS)

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEER INTERN

May-Aug 2018, 2019

- · Worked on the DynamoDB team to develop a Java client library for RESTful APIs to monitor and replace EC2 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)

Safran Peterborough, ON

SOFTWARE ENGINEERING INTERN

May - Aug 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

Sep 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

Sep 2016 - Present

- Managed 30 students on building a virtual conference software project in Java, and held weekly code reviews on clean architecture and principles of robust software design (CSC207 - Software Design)
- 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 Jun - Sep 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