

Andrew Jemin Choi

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Education

University of Toronto

MASTER (M.Sc.) IN COMPUTER SCIENCE (IN PROGRESS)

Spring 2021 (Expected)

BACHELOR (B.A.Sc.) IN COMPUTER ENGINEERING WITH HONOURS

Spring 2019

Experience

University of Toronto

Toronto, ON

TEACHING ASSISTANT

Fall 2016 - Present

- Designed new assignments and an automated tester in C++ and Rust to teach students about object-oriented programming, concurrency, and databases (ECE326 - Programming Languages)
- Led weekly tutorials about computer engineering, professional development, and engineering problem solving (APS100 - Intro to Engineering)
- Received “Outstanding” TA ratings from course surveys, with an average rating of 6.87/7

Amazon Web Services (AWS)

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEER INTERN

Summers 2018, 2019

- Worked on the DynamoDB team to develop a host management tool for table indexing requests (**Summer 2019**)
- Created an internal Java client library for the EC2 Provisioning service to monitor and replace unhealthy hosts, reducing tickets to manually migrate stale instances
- 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 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%
- Received NSERC Experience Award (\$5625), for research in improving software traceability in embedded systems

Research

University of Toronto

Toronto, ON

RESEARCH STUDENT, BLOCKCHAIN LAB

Fall 2019 - Present

- Researching novel methods to accelerate storage performance in Blockchain systems, under Prof. Fan Long
- Developed performance benchmarks and experiments for Ethereum clients to evaluate the effectiveness of a run-time smart contract validation tool (*paper under review; arXiv:1911.12555*)

Recordr.ai: Face-tracking Video Recorder

Toronto, ON

CAPSTONE RESEARCH STUDENT

Fall 2018 - Spring 2019

- Developed an automated recording Android app to capture lectures on a smartphone, under Prof. Jason Anderson
- Used FaceNet and PoseNet in Tensorflow to fixate the camera on speakers' faces and detect gestured commands

University of California, Los Angeles (UCLA)

Los Angeles, CA

RESEARCH STUDENT, STARAI LAB

Summer 2017

- Explored topics in artificial intelligence and researched ways to perform faster inference on Bayesian Networks
- Developed a tool written in Python and C that was 8 times faster than existing algorithms in finding marginal probabilities by compiling feed-forward arithmetic circuits
- Research Abstract published in the 2017-2018 issue of RUCS, supervised by Prof. Guy Van den Broeck