Andrew Jemin Choi

Canadian Citizen *USA Permanent Resident*

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Education

University of Toronto

Master (M.Sc.) in Computer Science — *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*

- Led weekly tutorials on topics in programming languages, design patterns, and engineering problem solving
- 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 — *Summer 2019*

- Worked on the Amazon DynamoDB team to develop an EC2 host management tool for table indexing requests
- 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 when hosts are replaced

Amazon Web Services (AWS) — *Seattle, WA*

Software Development Engineer Intern — *Summer 2018*

- Worked on the AWS Internet of Things (IoT) team to create a one-button program that automatically connects devices to AWS IoT, reducing user on-boarding wait times by 60%
- Developed an Android App in Java that was used as a reference model for customers to show how to authenticate and authorize Android devices using Amazon Cognito, AWS IAM, and the AWS Mobile SDK

University of California, Los Angeles (UCLA) — *Los Angeles, CA*

Research Student, StarAI Lab — *Summer 2017*

- Developed a Python/C tool that was 8 times faster than the state-of-the-art algorithm in finding marginal probabilities by compiling and optimizing feed-forward arithmetic circuits
- Research Paper published in the 2017-2018 issue of RUCS, under the supervision of Prof. Guy Van den Broeck

Safran — *Peterborough, ON*

Software Engineering Intern — *Summer 2016*

- Received the NSERC Experience Award, valued at $5625, for researching methods to improve software traceability in embedded systems, written in C and Assembly
- Developed a Python program to parse aviation requirements and cross-check documentation, reducing human errors by ~50%

Projects

Recordr.ai: Face-tracking Video Recorder

Python, Java

- Created an automated recording app to capture lectures on a smartphone, supervised by Prof. Jason Anderson
- Used FaceNet and PoseNet to fixate the video recording on speakers' faces and detect gesture-based commands
- Used AWS IoT to receive real-time commands from the neural network in an EC2 instance and relay messages to an Arduino motor