# Andrew Jemin Choi

⚑ *Canadian Citizen*    ⌂ *USA Permanent Resident*

📱 -    |    ✉ aj.choi@mail.utoronto.ca    |    🐙 andrewjeminchoi    |    in ajchoi

## Education

**University of Toronto**

MASTERS (M.SC.) IN COMPUTER SCIENCE                                        *Spring 2021 (Expected)*

BACHELORS (B.A.SC.) IN COMPUTER ENGINEERING WITH HONOURS                              *Spring 2019*

## Experience

**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*

- Explored topics in artificial intelligence and researched new ways to perform faster inference on Bayesian Networks
- 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

**University of Toronto**                                                                  *Toronto, ON*

TEACHING ASSISTANT, INTRODUCTION TO ENGINEERING                                    *Fall 2016, Fall 2018*

- Led weekly tutorials to teach about computer engineering, career development, and engineering problem solving
- Received an "Outstanding" TA rating from a class of 25 students, with an average rating of: 6.87/7

**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

- Worked in a team of four to develop an automated recording app to capture lectures on a smartphone
- 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 them to an Arduino motor, decreasing video latency to under one second