

# Andrew Jemin Choi

🇨🇦 Canadian Citizen | 🇺🇸 USA Permanent Resident  
✉ aj.choi@mail.utoronto.ca | 🌐 andrewjeminchoi | 📄 ajchoi

## Education

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### University of Toronto

MASTERS (M.Sc.) IN COMPUTER SCIENCE

Spring 2021 (Expected)

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

Spring 2019

## Experience

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### 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 streamline the on-boarding process for things and devices
- Created a one-button onboarding program to automatically connect Raspberry Pi's 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

- Designed and documented architecture diagrams for embedded libraries in C and Assembly
- Developed a Python program to efficiently parse aviation requirements and cross-check data flow in the code, reducing documentation errors by ~50%
- Received the NSERC Experience Award, valued at \$5625, for undertaking a software engineering research project

## Projects

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### 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