

Andrew Jemin Choi

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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

- Working on the Amazon DynamoDB team to develop an EC2 load management tool for table indexing requests
- Created an internal Java client library that makes RESTful API calls to the EC2 Provisioning service to monitor and replace unhealthy hosts

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 an open source one-button script to automatically connect Raspberry Pi's to AWS IoT using the AWS Python SDK and AWS IoT SDK, 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

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 them to an Arduino motor, decreasing video latency to under one second