Andrew Jemin Choi

Canadian Citizen   *USA Perminent Resident*

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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