Andrew Jemin Choi

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Education

University of Toronto

Toronto, ON

B.A.Sc. IN ELECTRICAL AND COMPUTER ENGINEERING

Spring 2019 (expected)

CGPA: 3.72 / 4.0

Experience _

Amazon (AWS)

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEER INTERN

Summer 2018

- Worked with the Internet of Things (IoT) team to create a one-touch onboarding script for Raspberry Pi's using the AWS Python SDK
- Developing an Android App in Java to automate and verify authentication and authorization of devices using Amazon Cognito and the AWS Mobile SDK

University of California, Los Angeles (UCLA)

Los Angeles, CA

RESEARCH STUDENT

Summer 2017

- Explored new ways to perform faster inference on Bayesian Networks by compiling networks into hardware and optimizing graph structures
- 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 issue of RUCS, under the supervision of Dr. Guy Van den Broeck

University of Toronto

Toronto. ON

TEACHING ASSISTANT – INTRODUCTION TO ENGINEERING

Fall 2016

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

Safran

Peterborough, ON

Summer 2016

SOFTWARE ENGINEERING INTERN

- Designed and documented architecture diagrams for ~1000 functions for libraries written 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 an industrial research project in software engineering

Projects _

Mapping the City of Toronto

- Led a team of 3 in developing a C++ mapping program on Linux using OpenStreetMap APIs
- Used unit testing and profiling for ~10000 lines of code to isolate bugs and pinpoint performance issues
- Created interactive and responsive graphics for the mapping interface and applied heuristics to optimize graph algorithms and to approximate Travelling Salesman solutions (~50% faster than expected metrics)

FaceAverage

PYTHON

- Developed a Python app to overlay and average facial pictures using OpenCV's similarity transform
- Used the dlib landmark detector to find common facial features and align them using triangulation