

# Andrew Jemin Choi

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## Education

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### University of Toronto

B.A.SC. IN ELECTRICAL AND COMPUTER ENGINEERING

CGPA: 3.72 / 4.0

Toronto, ON

Spring 2019 (expected)

## Experience

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### Amazon Web Services (AWS)

SOFTWARE DEVELOPMENT ENGINEER INTERN

Seattle, WA

Summer 2018

- Working on a new Internet of Things (IoT) Android App to automate authentication and on-boarding of devices using Java and the AWS Mobile SDK
- Used the AWS Python SDK to interface hardware and create an on-boarding script for Raspberry Pi's

### University of California, Los Angeles (UCLA)

RESEARCH STUDENT

Los Angeles, CA

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

TEACHING ASSISTANT – APS 100 (INTRODUCTION TO ENGINEERING)

Toronto, ON

Fall 2016

- Led weekly tutorials to teach students about engineering principles, professional development, and problem solving approaches
- Received an “Outstanding” TA rating from a class of 25 students (average rating: 6.87/7)

### Safran

SOFTWARE ENGINEERING INTERN

Peterborough, ON

Summer 2016

- 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

### University of Toronto Engineering Outreach

PYTHON INSTRUCTOR

Toronto, ON

Summer 2015

- Designed and delivered a Computer Engineering course in Python to over 120 students at UofT's engineering summer camp and led science workshops for elementary students across Toronto

## Projects

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### Mapping the City of Toronto

C++11

Winter 2016

- 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)