

Danliang Wang

<http://www.danliang.tk>

Expected Graduation : Aug 2019

Email : d267wang@uwaterloo.ca

Mobile : +1-780-863-6788

Availability : 8 months preferred

PROGRAMMING SKILLS

- **Languages:** Java, C, C++, Python, SQL, Bash, Javascript, MIPS Assembly
- **Technologies:** Android, AugularJS, Git, Perforce, Agile, GDB, FPGA, CNN, Unit/Regression Test
- **Interests:** Software Engineering, Machine Learning, DevOps, Capital Markets

EDUCATION

- **University of Waterloo** Waterloo, ON
Candidate for Bachelor of Computer Science, Honours, Business Option; GPA: 4.00 Sep 2015 – Ongoing

EXPERIENCE

- **Intel Corporation** Toronto, ON
Software Engineering Intern Jan 2018 - Apr 2018
 - Implemented multiple compiler optimization passes that accelerate CNN workloads for image recognition: Average Pool Pass, Last Convolution Padding Pass, etc., for Intel Deep Learning Accelerator(DLA) Compiler
 - Created Global Average Pool Pass that enabled support for ResNet-101 network with very large input dimensions
 - Improved coverage of various concat topologies with Cascade Concat Pass and Multiple Concat Users Pass
 - Created Convolution Multi-buffer Output Pass which enabled the DLA compiler to support the latest Intel's Deep Learning Inference Engine features
 - Developed multiple Python scripts to automate routine tasks
 - Created unit tests for multiple compiler passes by defining new network topologies using protocol buffer
 - Used: C++, CNN, Python, Perforce, FPGA, Protocol Buffers
- **BlackBerry** Mississauga, ON
Software Development Student May 2017 - Aug 2017
 - Prototyped and developed cloud backup and restore feature for BlackBerry Password Keeper
 - Developed background events tracking feature for BlackBerry DTEK
 - Integrated AMap API into BlackBerry DTEK to support the event location tracking feature in China
 - Developed save, quick settings, edit, RTL features for BlackBerry Notable
 - Fixed multiple tricky bugs for existing features in BlackBerry Android Apps
 - Used: Java, Git, Jira, SQLite, Drive API for Android, AMap API, Android Studio
- **SynMatrix360** Waterloo, ON
Software Consultant Feb 2018 - Mar 2018
 - Developed Intelligent Tuning page for a cloud-based microwave filter design web app
 - Developed algorithms to automatically determine margins for return loss, insertion loss, group delay specifications to aid RF engineers meet thermal shift requirements
 - Used: AngularJS, Bootstrap, C#, Highcharts, LESS

PROJECTS

- **Lunar Lander:**
 - A game in which a player attempts to land a lunar landing module safely on the Moon
 - Enabled users to edit terrain with direct manipulation and the ability to undo/redo edits
 - Used: Java, Swing, Direct Manipulation, Undoable Edits, MVC
- **Simple Drawing:**
 - A drawing application that supports drawing and manipulating strokes
 - Enabled users to scale, rotate, duplicate, delete strokes as well as make color and line thickness changes
 - Used: Java, Swing, Hit-testing, MVC