

Michael Wang

University of Waterloo | 3A Computer Engineering

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Programming Skills:

- **Python:**
Pytest, Azure app development
- **C++:**
Smart Pointers,
Function/Operator overloading
- **Linux:**
Device tree/linux kernel
development, grep
- **JavaScript:**
automation tools, JSON,
POSTMAN, HTML5
- **C:**
Programming embedded system,
Low level driver development,
Linux Kernel
- **Microsoft Azure:**
SDK, Policy, Pipelines, Web app
development
- **Other:** MySQL, Git, SVN,
Wireshark, PuTTY,

RELEVANT COURSEWORK:

- **ECE 254: Operating Systems**
Exploring operating system
concepts in C, including memory
management, scheduling and
concurrency
- **ECE250: Algorithms and Data
structures**
Optimization of program time and
memory usage using more efficient
algorithms
- **ECE 222: Digital Computers**
ARM assembly programming,
digital logic implementation on an
FPGA
- **ECE155: Engineering Design and
Embedded Systems**
Android app development using
smartphones as an I/O device

Summary of Qualifications

Availability: 4 month work term starting September 2019

Software: Software automation, Python, C++, and Microsoft Azure

Interests: Software optimization, application development

Work Experience

Assistant Product Designer, Jannatec Technology January-April 2017

An RFID technology firm whose products are tailored for the mining industry

- Low level driver development for embedded system with linux device tree
- Developed protocol for embedded temperature/humidity sensor in C

Product Tester, Extreme Networks Inc. September-December 2017

A networking company which designs Access Points and wireless infrastructure

- Created and refined automation tools in JSON writing test scripts for use in testing Network Services
- Configured Windows Virtual Machines to run for IP, DNS and Gateway related issues

IT, Baffinland Iron Mines May-August 2018

A mining company which operates the northmost open pit mine in the world

- Automated inventory process in Autohotkey

Cloud Analyst, Sourced Group January-April 2019

A cloud consultancy specialized in migrating large-scale IT enterprises

- Developed Policy Engine for Azure Policy with Azure Python SDK as part of scrum team
- Created Slackbot using slack actions routed through an Azure web app to endpoint using REST API requests

Projects

Enghack May 2017

- Developed an Android application connected to a website via REST calls
- App could query the website for data and send user touch input to website

Certifications

AWS Certified Cloud Practitioner January 2019