NATHANIEL WONG
COMPUTER ENGINEER

Contact:
nathaniel.r.wong@gmail.com
(613)-863-6329
www.linkedin.com/in/nathanielrwong

WORK EXPERIENCE

Queen's University Biology Department

Software Developer   *May 2018 - Present*

- Designed and developed a custom plankton counting tool for the Ministry of Environment and Climate Change.
- Programmed primarily in Javascript and Node.js, using the Electron framework for desktop application development.
- Maintaining and adding features while the application is in use by researchers within the department.

Engineering Society of Queen's University

President   *Feb. 2017 – April 2018*

- Led one of Canada's oldest and most established representative bodies for engineering students.
- Oversaw a team of 2 VPs, 13 Directors, and a full time permanent General Manager.
- Managed a $1.8M+ operating budget including 8 services, and 40+ student run teams and committees.
- Primary point of contact with Dean of Engineering, Faculty, Alumni, and other external bodies.
- Sat on Board of Directors for the Campus Bookstore.

TD Bank

Cybersecurity Analyst   *May 2016 – August 2016*

- Setup and documented networking lab with virtual machines for pen-testing and internal Confluence hosting.
- Monitored and reported suspicious network traffic using Akamai tools and cyber incidents using CrowdStrike.
- Chaired daily incident meetings with Incident Response Team and external companies including The Herjavec group and Hewlett-Packard.

Canada Post

Process Engineering Intern   *May 2015 - August 2015*

- Implemented the nation-wide file migration of all AutoCAD drawings from shared network drives to Solidworks Enterprise PDM Software.
- Travelled independently across Canada and taught 100+ engineers on the use of the software.
- Designed Lean Six Sigma improvements for various systems in the Canada Post business.
- Developed and presented an innovative marketing strategy for the new FlexDelivery program that targets the student demographic.

SKILLS

- Skillful in communication, project and people management, strategic planning, and conflict resolution.
- Proficient: Javascript, C/C++, SQL, HTML, CSS.
- Familiar: Java, PHP, Python, Verilog, MatLab, Assembly.
- Bilingual in English and French.

EDUCATION

Queen's University

Bachelor of Engineering and Applied Science   2014 – Present

- Specialization in Computer Engineering.

Lean Six Sigma

Certified Process Management Yellow Belt   2015

Projects

Teleoperated Robot Arm Using Machine Vision

- Leap Motion controlled robot arm with 5 degrees of freedom, programmed using Python.

Annotation Software

- Electron based overlay program for annotating during presentations using HTML, CSS, JS.

Personal Website

- http://natw2012.github.io/

Movie Ticketing System

- Created using MySQL database with HTML, CSS< and PHP.

RISC Computer

- Designed and developed an entire RISC computer, including the processor, memory, and IO.
- Implemented using Verilog and Altera Quartus II software

Part Time/Volunteer Experience

Queen's University

- Campus Tour Guide   Sept. 2018 - Present
- Residence Don   Aug. 2018 - Present

Engineering Society of Queen's University

- Director of Professional Dev.   Mar. 2016 – April 2017
- Orientation Leader   Sept. 2015 – April 2016