MATTHEW DIXON

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EDUCATION

Bachelor of Computing, Computing and Mathematics   **Expected April 2020**

Queen's University – Kingston, On.
- Course work in algorithms, data structures, software development, artificial intelligence, discrete math, linear and abstract algebra, calculus, and probability
- Completed twelve-month Professional Internship placement
- 3.69 GPA – Dean's Honour List for 2016-17 and 2017-18

WORK EXPERIENCE

Software Developer Co-op   **May 2018 – April 2019**

Ericsson – Kanata, On.
- Wrote low-level embedded hardware drivers implementing new features for Ericsson Radio Systems
- Created, documented and automated test enviroments
- Participated in the Autonomous Vehicle Innovation Network team planning and constructing a 5G network for autonomous vehicle testing in Kanata
- Developed organization and time management skills working in an agile work enviroment
- Collaborated and worked in small team as well with other multidisciplinary teams located locally and globally
- Awknowldged by management for excellent initative and self-direction

Teaching Assistant   **September 2017 – April 2018**

Queen's University – Kingston, On.
- Teaching Assistant for CISC P81 – Computers: Applications and Implications, Fall 2017 and Winter 2018 terms
- Taught introductory computer science concepts to students with no prior background
- Helped plan and run weekly lab assignments as well as proctored and marked tests

PROJECTS

AquaSwift.io
- Startup co-founded to provide rural water solutions through the use of IoT devices and data analytics
- Created website to allow users to access and analyse their personal data transmitted wirelessly and in real time from IoT sensors installed in water wells
- Built and matintained front-end using HTML, CSS and JavaScript
- Designed and implemented backend databases using MySQL and wrote PHP for server-side logic

YTsort
- Tool created to improve the ability to binge watch any channel on YouTube
- User can sort and watch the videos of a channel by a criteria such as 'most viewed from the past week'
- Self-taught Ruby and independently familiarized myself with Google and various other APIs

Queen's Computing Students Association Website
- Designed and built new website for the undergraduate student goverment for the School of Computing
- Awarded Queen's Computing Students Association Volunteer Award for 2017-2018

TECHINCAL SKILLS

Proficient in Python, C/C++, Git, Unix/Bash
Familiar with Java, Ruby, MATLAB, PHP, MySQL, JavaScript, HTML/CSS