**Mihai Tiuca**

3A Mechatronics Engineering

University of Waterloo, Canada

**Highlights**

* Led a variety of projects including image processing, native Android libraries, and frontend design
* Experienced with backend systems such as RESTful API and non-relational database creation
* Formal knowledge of complexity analysis as well as a variety of data structures and algorithms
* Developed software using C++, C, Python, JavaScript (Node and Angular), HTML, CSS, and more
* Significant school work includes Microprocessor Systems and Interfacing, Sensors and Instrumentation, and Computer Structures and Real-Time Systems
* Thrive working on new challenges in fast-paced environments with minimal supervision

**Work Experience**



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| Software Engineer | Jan. 2016 – May 2016 |

* Worked as part of a small team building 3D maps for drones
* Independently developed a native augmentation API for Android using OpenGL ES in C++
* Optimized and tested to ensure the library was scalable and worked across a variety of devices
* Managed my own tasks and provided specs for other engineers interfacing with my code

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| Software Prototype Developer | May 2015 – August 2015  Sept. 2014 – Dec. 2014 |

* Worked with a small team to develop working software prototypes (over 10 prototypes and 2 production-level apps)
* Developed several image processing applications using Python and OpenCV
* Designed, developed and integrated UI/UX, backend APIs, and a database to make working prototypes
* Directly pitched projects to executives and VPs from Canon Canada and Canon USA
* Named inventor on a patent, more pending

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| Tech Support Specialist | Dec. 2013 – May 2014 |

* Conducted company analysis and worked with the co-founder to improve products and procedures
* Improved company tech support process to decrease response time

**Personal Projects**

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| University of Waterloo Google Developer Group – Tech Executive | In progress |

* Part of a group creating an educational community environment for developers at the university
* Currently building a website for the club using AngularJS

**Significant Hackathons**

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| Hack the North | September 2015 |

* Created wearable system for people with visual impairments that described their surroundings to them
* Recognized friends’ using face-to-vector converter and SciKit-Learn predictive algorithms in Python

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| Battlehack Toronto | July 2015 |
| * Created real-time restaurant ordering and interaction web-app with a Python backend * Pusher API partner prize |  |