# Michael **Maxwell**

SOFTWARE ENGINEER    SEATTLE, WASHINGTON

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## Summary

Creative and driven software engineering graduate with great communication and well-developed programming skills. Had the opportunity to work with many people on several projects by competing at hackathons throughout and beyond my undergrad. Passionate about saving cycles and bytes which is why parallel & distributed computing where hardware is fully utilized and where performance metrics are critical interests me.

## Skills

**Languages**   C#, JavaScript, Python, Java, C/C++, React, SQL

**Development**   Git, Azure, Azure DevOps, Serverless Architecture, Linux, Agile Development, Protocol Buffers, REST APIs

## Work Experience

### Microsoft                                                                                                        *Redmond, Washington*
SOFTWARE ENGINEER — AZURE OBSERVABILITY                                                                              *Aug. 2021 - Present*
- Working on the OpenTelemetry .NET SDK. Contributing to open source software and working with members of the community.

### Microsoft                                                                                                        *Redmond, Washington*
SOFTWARE ENGINEER — EDGE EXPERIMENTATION                                                                             *Jun. 2019 - Aug. 2021*
- Built a system for Edge team members to understand and be able to monitor changes to the 2000+ features the product contains, including default states, Edge & Chrome experiments with interoperability being a key goal
- Implemented by parsing the code of 4 official Edge builds and Chromium daily with a grammar for struct definitions and platform information
- Supported the ability to get historical states of features by checking out old branches
- Ingesting and decoding a protobuf from Google's experiment service into Azure Blob Storage and a SQL database every 15 minutes
- Automated rules for a pull request approval bot implemented by a C# Azure Function which sped up developers ability to safely create experiments for their features with minimal human involvement

### Martello Technologies                                                                                            *Kanata, Canada*
SOFTWARE DEVELOPER — SUMMER STUDENT                                                                                  *Apr. 2018 - Aug. 2018*
- Replaced a legacy dashboard with a Vue.js application which interacted with our REST API
- Developed reusable custom Vue.js UI components for our internal library (e.g. a modal, a filtered sorted table)
- Created a suite of Mocha tests on currently supported CRUD operations of containers and devices
- Presented my progress at biweekly sprint meetings to the management team, shareholders, and all other developers

### Carleton University: School of Computer Science                                                                  *Ottawa, Canada*
TEACHING ASSISTANT — FUNDAMENTALS OF WEB APPLICATIONS & INTRODUCTION TO COMPUTER SCIENCE II                          *Sep. 2016 - Dec. 2018*
- Held office hours, organised & ran weekly workshops following the course's content & assignments
- Graded assignments using a rubric that all the teaching assistants collaborated to create

## Projects

### Contrasting Game Architectures — Entity Hierarchy vs. Entity Component System                                    *Ottawa, Canada*
COMPUTER SCIENCE HONOURS PROJECT                                                                                     *Jan. 2019 - Apr. 2019*
- Compared the development process, testing, & quality metrics of a 2D platformer game using both architectures
- Gained game development interest and skills through implementing both architectures using C++ and the SFML2 graphics library
- The abstract can be found at: service.scs.carleton.ca/node/4762

### Mobile App — Internet over SMS                                                                                   *Ottawa, Canada*
THIRD YEAR SOFTWARE ENGINEERING PROJECT                                                                             *Sep. 2017 - Jan. 2018*
- Make requests to our cloud services using only SMS - for when you don't have WiFi or a data connection
- The app sends custom encoded requests via SMS to a Twilio phone number which routes the request to our server and replies back with the servers response as one or more text messages
- Node.js Cloud Services: Web Search, Map Directions, Song Lyrics, News, Load Websites, etc.
- Lead a team of four students, assigned weekly tasks, reviewed pull requests & developed the server using a custom transfer protocol

## Education

## Carleton University

<div align="right"><em>Ottawa, Canada</em></div>

BACHELOR OF COMPUTER SCIENCE HONOURS: SOFTWARE ENGINEERING

<div align="right"><em>Sep. 2015 - Apr. 2019</em></div>

- Relevant Courses: Parallel Programming, Design & Analysis of Algorithms, Software Quality Assurance, Software Product Management
- Extra-Curricular Activities: Student-lead hackathon organiser responsible for the website & Campus safe walk program volunteer