

Thomas Britnell

SOFTWARE ENGINEERING RECENT GRADUATE

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Summary

- Software Engineering Recent Graduate with technical and interpersonal skills proven through course work and a year long co-op position.
- Extensive **Object-Oriented programming** experience with **C#, Java, C++**, and **Python** through various work and academic experiences.
- Strong **collaboration** and **communication** skills gained through driving various academic and work related projects.

Education

McMaster University

Hamilton, ON

BACHELOR OF ENGINEERING - SOFTWARE ENGINEERING (CO-OP)

2017 – 2022

- 3.8 GPA
- Summa Cum Laude
- McMaster President's Award 2017
- McMaster Badminton Club Member 2017 – 2022
- Relevant Course Work: **Databases, Data Structures & Algorithms, Digital Systems & Interfacing, Operating Systems, Concurrent Programming**, Principles of Programming, Software Testing, Software Project Management, Software Design, Computer Architecture, Computer Graphics, Human Computer Interfaces, Probability & Statistics for Engineering, Discrete Math

Work Experience

Adlib Software

Burlington, ON

SOFTWARE ENGINEER INTERN

January 2020 – December 2020

- Developed new features for enterprise software serving high-profile corporate clients using Agile methodology, C, SQL, and Visual Studio XAML workflows.
 - Collaborated with the AI team to integrate document identification and classification features into the product.
 - Conducted QA regression testing using manual and automated methods to ensure high-quality standards were met.
 - Utilized Azure for version control software and contributed to a large code-base with multiple branches, versions, and builds.
- Languages/Tools:** C#, Azure DevOps Server, Visual Studio, .Net, Microsoft SQL Server Management Studio, Selenium

Projects

Library Database

Remote

PERSONAL PROJECT

January 2023

- Created a web application similar to what might be used by a library to keep track of books, authors, copies, etc.
 - Supports CRUD (Create, Read, Update, and Delete) operations interacting with a MongoDB database.
 - Deployed to production using Railway.
- Languages/Tools:** JavaScript, Node.js, Express.js, Pug (jade), Railway, MongoDB

“BrickBuilder”

Remote

McMASTER UNIVERSITY

December 2021

- Created a fully modularized ‘LEGO’ style brick modeling application, using matrix calculations to allow for transformations, rotations, and translations of the bricks in 3D space.
 - Included lighting, material rendering, and ray tracing for brick selection.
 - Wrote rigorous unit, system, and acceptance testing procedures to ensure function and quality were maintained after numerous updates and changes.
- Languages/Tools:** C++, FreeGlut, OpenGL, Visual Studio Code, GitLab

“Minimo”

Remote

McMASTER UNIVERSITY

January 2021

- Worked with a team on an open source Google Chrome extension that replaces the homepage.
 - Cleaned up and modularized the whole code-base
 - added voice control support using annyang API, a todo list, clock and localized weather using the OpenWeather API.
 - Improved the app in several tangible ways for development, including code re-usability and readability.
 - Enhanced the user experience by increasing accessibility for the visually impaired.
- Languages/Tools:** JavaScript, node.js, css, html

Tool Kit

Key	Strong	Intermediate
Languages	Python, C#, Java, C++, SQL, Javascript, html, css, C, Matlab, Golang	
Tools/Frameworks	Git, Latex, Pygame, OpenGL, Matlab Simulink, DB2, .NET, node.js, express.js, MongoDB	
Environments	Visual Studio, Eclipse, Jupyter, Microsoft SQL Management Studio	