

SHAWN ESSELTINE

Software Developer - Seeking software co-op positions

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Skills

Languages/Frameworks: Python, C, C++, Java, Javascript, Bash, Ruby, F#, SQL, Haskell, Agda, HTML, CSS, PHP, Swift, VisualBasic, Matlab, Dart, Prologue, Racket

Technologies: Git, Unix/Linux, x86 NASM, Computer Hardware, Flutter, LATEX, OpenGL, Microsoft Office, Firebase, SQL Databases, SVN, Emacs, Tkinter, Jekyll

Experience

Teaching Assistant | McMaster University

September 2019 - Present

- Instructed lectures of approximately 150 students and labs of approximately 50 students on topics including Bash and NASM Assembly
- Evaluated student submissions and recorded student grades into the database in a timely fashion
- Clarified course material to students with questions and arranged meetings to solidify concepts when necessary

Sales Support | Fastenal

December 2018 - September 2019

- Engineered a web application using **Javascript** to manipulate and clean data from a monthly report resulting in monthly time savings of **over 2 hours**

Process Automator | Purolator

May 2018 - August 2018

- Developed software in **Python** using the **Tkinter** toolkit that automated email outreach to overdue accounts increasing daily outreach capabilities by **over 250%**
- Programmed a PDF file splitting module and incorporated it into the project decreasing bulk invoice PDF file split time by **300%**

Projects

Hustle

Current Project

- Developed a Flutter mobile application (using Dart) that communicates with a Firebase server to save and retrieve user business transactions from their side hustle

Kart Racer

Current Project

- Developed a Kart Racer game similar to Mario Kart in **C++** using **OpenGL** that implements a custom physics engine and allows users to input various driving mechanics and use game objects
- Implemented **classes** to effectively store and manipulate objects in the game

EasyTable

October 2018

- Developed a **Python** module utilizing **object-oriented development** to represent tables as objects
- Programmed a Python class that makes creating and visualizing tables intuitive, using built in object **inheritance** such as string representation

Education

McMaster University BAsc. Honors Computer Science Co-Op, Business Minor

2017 - 2021

Extracurriculars

Year Representative | Computer Science Society (McMaster University)

Current

Worked in a team with my peers to design, organize, and implement numerous events enhancing the computer science community at McMaster University.

Student Ambassador | McMaster University

Current

Guided applicants in their decision-making process for University and addressed student questions about the application process and what life is like in university. Administered "Day in The Life" tours for multiple students that allowed them to visit McMaster and experience a day as a Computer Science student.