MATTHEW BRAUN

Available for: 8 Month Co-op Winter 2020
References available upon request

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Engineering Co-op Program
University of Alberta

PROJECTS

3D Printer [Photos]
📅 January 2016 - April 2016
- Built a 3D Delta Printer from scratch
- Printer is roughly 1 meter in height, and has a printable diameter of 25cm
- Run with an Arduino ATMega 2560 microcontroller, and controlled on a PC.
- _Utilized:_ Atmel, Arduino, Repetier, PronterFace, Simplify3D, Marlin, C++

Tweet Heat [Demo Video]
📅 November 2018
- Used a Twitter API key to collect latitude/longitude coordinates of live Tweets at the time of posting, along with the Tweet they posted
- We won the HackED Beta 2018 hackathon competition, and a demo can be found on my website
- This project was coded in under 24 hours
- _Utilized:_ Python, Flask, HTML, SQLite, API Keys

Audio Visiualizer [Demo Video]
📅 March 2019 - April 2019
- Created a program which would take an audio file as input, and convert it into a 3D frequency bar graph animation.
- _Utilized:_ Qt, C++, Algorithms

My Website [matthewbraun.ca]
📅 Aug 2019 – Ongoing
- This is the project I am working on currently. It is a work in progress, but check it out if you'd like to learn more about my projects!
- _Utilizing:_ HTML/CSS, PHP, JavaScript

WORK EXPERIENCE

Software Consultant
DevFacto Technologies [Link]
📅 Jan 2020 - Mar 2020 (Full-time)   📍 Edmonton, AB
- Worked well in teams to discuss + develop software solutions for internal work for DevFacto, as well as a large insurance client of theirs as well
- Participated in agile/scrum stand-ups and retrospectives to identify road-blocks, maintain high productivity, and plan future developments
- Gained significant experience doing backend web development using .NET Core and C#, as well as some experience on frontend development using React and TypeScript
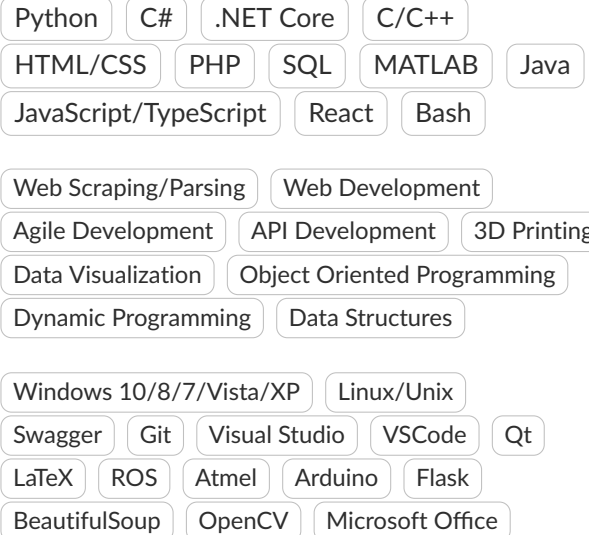
Deskside Support Analyst
Compugen Inc. [Link]
📅 May 2019 - Aug 2019 (Full-time)   📍 Edmonton,AB
- Worked with hundreds of Government of Alberta employees, at several different Edmonton office locations, on a large-scale Windows 10 Enterprise domain
- Communicated with these clients effectively to ensure that their issues were resolved in a timely manner
- These issues entailed work such as: updating BIOS firmware, reimaging PCs, network diagnostics, editing registry keys, updating databases, replacing laptop parts.

LANGUAGES/FRAMEWORKS/SK

Python   C#   .NET Core   C/C++
HTML/CSS   PHP   SQL   MATLAB   Java
JavaScript/TypeScript   React   Bash

Web Scraping/Parsing   Web Development
Agile Development   API Development   3D Printing
Data Visualization   Object Oriented Programming
Dynamic Programming   Data Structures

Windows 10/8/7/Vista/XP   Linux/Unix
Swagger   Git   Visual Studio   VSCode   Qt
LaTeX   ROS   Atmel   Arduino   Flask
BeautifulSoup   OpenCV   Microsoft Office

EXTRA-CURRICULARS

Software Team Member
Space Exploration Alberta Robotics [Link]
📅 Sep 2018 - Ongoing
- Worked on drive controls and object shape detection for our team's rover

Guitar Teacher
Heart of the City Music Program [Link]
📅 Sep 2017 - Oct 2019
- Taught students in grades 4-6 to play guitar as well as piano
- Perform at the group's fundraising events in a band
- I also provide website support for this organization

About Me
- I enjoy going rock climbing, weightlifting, and music
- I'm very friendly! I have good communication skills

EDUCATION

BSc. Computer Engineering, Co-op
University of Alberta
Completed Academic Terms: 5/8
Completed Work Terms: 2/5
📅 Sept 2016 – May 2022

Achievements + Qualifications
- Faculty of Engineering Academic Excellence Scholarship
- Rutherford Scholarship
- Class 5 Advanced Driver's License and a reliable vehicle