# **MATTHEW BRAUN**

Searching for: 8 Month Coop Winter 2020 References available upon request

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### **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]

Movember 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] (A work in progress!)

Aug 2019 - Ongoing

- This is the project I am working on currently. It is not completely finished yet, but check it out if you'd like to see more about me and my projects!
- Utilized: HTML/CSS, PHP, JavaScript

# **WORK EXPERIENCE**

### **Deskside Support Analyst**

Compugen Inc. [Link]

- 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.

### **Concrete Repair Labourer**

Crack Chaser Concrete Repair [Link]

## Jul 2015 - Aug 2018 (Full-time)

- **♀** Edmonton, AB
- Worked effectively and safely in high-stress environments, in teams as well as on my own.
- Poured several different concrete + epoxy structures, such as driveways, staircases, ramps, industrial floors, while ensuring a safe work environment
- Received training on several various pieces of heavy-duty power equipment, such as gas-powered saws, jackhammers, concrete mixers

### LANGUAGES/SKILLS



# **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
- Currently working on fixing bugs with the team's website

### **Guitar Teacher**

Heart of the City Music Program [Link]

Sep 2017 - Ongoing

- Teach guitar/piano for kids in grades 4-6, as well as perform at their fundraising events
- I also provide website support for this organization

#### **About Me**

- I enjoy going rock climbing and weightlifting
- Lately, I've been developing a small Android app
- I like music! I have been playing guitar for 15 years, and piano for about 7

# **EDUCATION**

### **BSc. Computer Engineering, Co-op**

University of Alberta

Completed Academic Terms: 5/8 Completed Work Terms: 1/5

**Sept 2016 - May 2022** 

### **Achievements + Qualifications**

- Faculty of Engineering Academic Excellence Scholarship
- Rutherford Scholarship
- Have a Class 5 Advanced Driver's License and a registered vehicle in Alberta