

Joshua Dall'Acqua

STUDENT · MATHEMATICS AND COMPUTER SCIENCE

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Summary

Currently enrolled at McGill university. Excited to apply knowledge of systems, algorithms, data structures and design patterns being learned in courses. GNU/Linux advocate and hobbyist. Very passionate about computer science, pure mathematics, and the application of maths within computing. Looking to gain experience as an intern in any aspect of software/computer science.

Education

B.S. in Mathematics and Computer Science (In Progress)

McGILL UNIVERSITY

- Current CGPA: 3.96

Montreal, Quebec

Sept 2020 - April 2024

High School Diploma

STRATHCONA COMPOSITE HIGH SCHOOL (COMPLETED)

- Honours with Distinction
- AP program

Edmonton, Alberta

Sept. 2017 - June 2020

Related Coursework

- Abstract algebra
- Mathematical Analysis
- Probability
- Software Systems
- Programming Languages and Paradigms (functional programming)
- Algorithms and Data Structures
- Computers and society

Work Experience

BlasBerry Orchard

ORCHARD WORKER

- Find creative solutions to problems with limited resources
- Being trusted to work unsupervised for days at a time
- Carry out transactions with clients of the orchard
- Off site work such as product delivery and pickup
- Ensure the grounds stayed clean and professional
- Safe operation of heavy machinery

Edmonton, Alberta

July. 2020 - Sept. 2020, May. 2021 - Aug.

2021

DiscoverE Engineering Summer Camps

SCIENCE CAMP VOLUNTEER

- Get campers excited about STEM by sharing passion for the field
- Assist in setup and tear down of projects for the campers
- Keep track of campers while moving from one location to another
- Act as a third party in conflict resolution

Edmonton, Alberta

July. 2019 - Sept. 2019

Extracurricular Activity

Side Projects

- Square wave fractal visualization in Python with Matplotlib, currently re-writing in Rust/OpenGL using Glium library
- Breadth first graph traversal as a proof for the countability of rational numbers
- Binary search algorithm as a proof for localization of roots
- React/Node website hosted on Raspberry Pi
- NAS storage using Raspberry Pi, WireGuard and Samba

Blitz Coveo AI Competition

- Use knowledge in Artificial Intelligence to compete against other teams of Quebec university students.
- Completed technical qualifier November 2021, competing January 14-15 2022

Technical Skills/Languages

Productive:

- Python
- Java
- Bash
- Git
- Unix

Knowledgeable:

- C
- F#
- Rust

Learning:

- React
- Node.js
- Javascript/Typescript
- Ocaml
- SQL