James Lowther

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EDUCATION

UNIVERSITY OF CALGARY
BSc in Computer Science
Expected Apr 2021 | Calgary, AB
- Transferred from University of Alberta

Cum. GPA: 3.88 / 4.0
Major GPA: 4.0 / 4.0

WG MURDOCH HIGH SCHOOL
June 2017 | Crossfield, AB
- Governor General's Award
- Class Valedictorian

COURSEWORK

UNDERGRADUATE
Algorithm Complexity Analysis
Low-level Assembly Programming
Relational Database Design
Object-Oriented Programming
Computability Theory
Unix Tools

SKILLS

TECHNICAL SKILLS
Proficient with:
Python 3 • C++ • SQL • MIPS
LaTeX • Git • Linux • Windows

SOFT SKILLS
Outstanding:
Clear Communicator • Leader
Attentive • Efficient • Versatile

INTERESTS

Personal:
Information Security
CTF Security Competitions
Video Game Development
Pixel Art and Graphics
Piano and Music

PERSONAL PROJECTS

FILE COMPRESSION
- A run-length compression and decompression algorithm.
- Written in C++.

JOURNAL SUBMISSION SYSTEM
- A journal submission system submitted as a final project for a software engineering course.
- Written in Java, using JavaFX and JSON.

EXPERIENCE

TOWN OF CROSSFIELD | Operational Services
May 2018 - Aug 2018, May 2019 - Aug 2019 | Crossfield, AB
- Member of a crew that provided general mowing and maintenance for town parks, facilities, and properties.
- Responsible for town splash park by performing water quality tests and general maintenance to ensure water safety for town residents.
- Set up and helped manage town events and activities.

PHYSICS 20 HIGH SCHOOL TUTOR
July 2018, July 2019 | Crossfield, AB

SOLSTICE BERRY FARM | Saskatoon Harvest and Processing
July 2017 | Crossfield, AB
- Worked on the berry harvester by ensuring continuous berry collection and monitored for equipment malfunction.
- Sorted and processed berries to provide a consistent optimal berry quality for Solstice Berry Farm customers.
- Packaged and processed berries for both consumer sale and frozen storage.

HERE'S THE SCOOP | Flyer Delivery Worker
Apr 2012 - Apr 2017 | Crossfield, AB
- Packed and delivered flyer packages to 100 households by a set deadline.

SELECTED ACHIEVEMENTS

JASON LANG SCHOLARSHIP
Dec 2018, Jan 2020
- Awarded to post-secondary students who have maintained a GPA of 3.2 or higher.

WG MURDOCH HIGH SCHOOL CLASS VALEDICTORIAN
June 2017

GOVERNOR GENERAL'S AWARD
Sept 2017
- Awarded to students with the highest high school average.

EXTRA-CURRICULAR

INFOSEC CLUB JUNIOR EXEC | University of Calgary
Feb 2020 - Present | Calgary, AB
- Ran workshops aimed at teaching students information security principles.
- Organized and participated in capture-the-flag (CTF) security competitions.

LEADERSHIP | WG Murdoch
Aug 2015 - June 2017 | Crossfield, AB
- Managed school events such as assemblies and sports tournaments.
- Helped run 2016 farm and safety demonstration for the Crossfield Elementary School.
- Participated in a variety of leadership skill building activities.