

Taylor McOuat

Computer Engineering Student

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TECHNICAL SKILLS

Computer

- C++
- MATLAB
- Excel VBA
- Java
- Python

Tools

- GitHub
- IntelliJ
- ANTLR
- Visual Studio
- Microsoft Office

Certifications

- WHIMIS
- First Aid and CPR
- Alberta Class 5 GDL Driver's License

EDUCATION

University of Calgary

2014 – 2018

Bachelor of Science – Chemistry (with distinction)

GPA: 3.62 / 4.0

University of British Columbia

Expected 2024

Bachelor of Applied Science - Computer Engineering

Co-op: Available for 4 or 8 months beginning May 2021

CGPA: 88%

TECHNICAL WORK EXPERIENCE

Balancing Pool, Calgary, Alberta

Full time: July, 2019 – August, 2020

Power Analyst

Part time: September, 2020 – Current

- Built fundamental supply and demand scenarios to forecast short term hourly power prices daily
- Implemented offer control model with global maxima finder using MATLAB to optimize daily profits
- Leveraged Excel VBA for statistical analysis on Alberta electricity supply/demand data
- Cooperated in managing portfolio with trading team and recorded +\$100 million in profits for 2020
- Automated daily procedures with VBA and Python

ENGINEERING STUDENT TEAMS

BioT, UBC Envision

September, 2018 – May, 2019

Instrumentation Team Member

- Collaborated with a team of Engineering students to create an automated beer brewing system designed to monitor and control process variables in real time
- Organized and performed preliminary data analysis using MATLAB and VBA

TECHNICAL PROJECTS

Multithreaded Wikipedia Server

December 2020

School Group Project

- Created a server that accepts JSON-formatted requests for information on Wikipedia and responds with appropriate information
- Utilized GitHub to work effectively with group members on separate branches, merging when necessary to preserve a clean main branch
- Designed program with concurrent framework and ensured thread-safety for multiple users

Portfolio Website

October 2020

Personal Project

- Designed and developed an interactive website that contains my technical and academic experience along with a showcase of my personal and academic projects
- Back-end of website written in Python, utilizing the Flask web framework
- Front-end of website written in HTML, CSS, and JavaScript. Utilized pre-made bootstrap packages.
- Website deployed on a remote Linux server

OTHER WORK EXPERIENCE

Calgary Drop In & Rehab Centre, Calgary, Alberta

May, 2019 – August, 2019

Community Engagement Intern

- Support execution of community engagement programs for schools, tour groups, meal sponsors, and other potential engagement opportunities
- Executed day-to-day activities involving volunteers, tours, public education, advocacy, meal services groups and proactive and reactive engagement

Chestermere Recreation Center, Chestermere, Alberta

May, 2017 – August, 2018

Senior Camp Leader / Assistant Coordinator

- Collaborated with coordinator to develop supply lists, schedules, operating procedures and emergency protocols to be implemented for the summer
- Interacted in a presentable and friendly manner with parents to ensure confidence in the program and to provide feedback on any potential issues with children in care
- Supervised and lead activities for the children in the program

VOLUNTEER EXPERIENCE

CIBC Run for the Cure, Calgary, Alberta

October, 2013 – Current

General Volunteer

- Assist with set up and take down of race day equipment
- Managed water/energy drink station

AWARDS

University of British Columbia Dean's Honour List

2019

University of Calgary Faculty of Science Dean's List

2016 & 2018

Jason Lang Scholarship

2015 & 2016

INTERESTS & ACTIVITIES

- Former member of Calgary based Improv group The Kinkonauts
- Swimming, tennis, video editing, travelling, baseball