

James Black

B.Sc. Honours Computer Science and Mathematics

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Professional Summary

Hardworking software developer with a passion for backend technology and low-level implementation details. Proficient in C, C++, Java, and Python and has experience with JavaScript, HTML/CSS, and PHP. An enthusiast of competitive programming as well as general puzzle and problem solving. Seeking for an opportunity to begin a career with a reputable company.

Work Experience

Oxford Frozen Foods

Programmer

Oxford, NS

May 2019 - Present

- Created reporting mechanism for generating PDFs from data in the company's ERP software.
- Developed a Drupal module for sending prescription maps to sprayers through John Deere's API.
- Worked on a PWA for forklift drivers to interface with the company's ERP software.

Sonraí Security

Junior Cloud Engineer

Fredericton, NB

Sept 2018 - May 2019

- Part time work developing data collection software for Sonraí's Cloud Data Control service.
- Agile work environment with weekly stand-ups.
- Utilized AWS and Azure Java APIs.

Oxford Frozen Foods

Junior Programmer

Oxford, NS

May 2018 - Sept 2018

- Implemented new features in a Python application that tracks blueberry sprayers.
- Created an application for analyzing debris levels in blueberry totes based on laser scan data.
- Developed Drupal modules for the company's intranet.

Education

Mount Allison University

B.Sc. Honours Computer Science and Mathematics

Sackville, NB

Sept 2015 - May 2019

- First Class Honours, Cumulative GPA 3.9.
- Peer Tutor and Teaching Assistant for Computer Science and Mathematics.
- Senior member of the competitive programming team for the International Collegiate Programming Contest.

Projects

Travel Planning Application

Swift

- Developed for a software design course at Mount Allison University.
- Utilized the iOS SDK and Apple's Cocoa Touch, CoreData, and MapKit frameworks.

Mandelbulb Viewer

JavaScript

- An Interactive 3D Mandelbulb fractal viewer built using JavaScript and WebGL.
- Fractal generated in real-time and rendered with hardware acceleration.
- Implemented Phong shading to simulate smooth lighting across the surface.

CHIP-8 Emulator

C++

- Implemented an interpreter for the CHIP-8 instruction set capable of running small graphical programs.
- Utilized the SDL library for windowing and playing sounds.

Volunteer Experience

Cumberland SMILE

Sensory Motor Instructional Leadership Experience

Amherst, NS

Sept 2017 - April 2019

- An organization offering recreational activities for children with developmental disabilities.
- Paired with a child swimming and playing games at the Cumberland YMCA.

Best Buddies

Mount Allison University Chapter

Sackville, NB

Sept 2017 - April 2019

- A program that offers people with intellectual disabilities a chance to come together for social activities and build friendships within the community.
- Paired with an adult participating in activities such as bingo, puzzles, cards, and crafts.

Awards

Dean's List academic standing at Mount Allison University

2016-2019

6th Place at the 2018 Northeast North America ACM-ICPC Regional Programming Competition

2018

1st Place at the 2018 Atlantic Canadian ACM-ICPC Preliminary Programming Competition

2018

10th Place at the 2017 Northeast North America ACM-ICPC Regional Programming Competition

2017

2nd Place at the 2017 Atlantic Canadian ACM-ICPC Preliminary Programming Competition

2017

4th Place at the 2016 Atlantic Canadian ACM-ICPC Preliminary Programming Competition

2016