

Matthew Belanger

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Education

University of Windsor

Windsor, ON Canada

BACHELOR OF SCIENCE IN COMPUTER SCIENCE.

Sept. 2018 - Present

- Recipient of the Deans Renewable Entrance **scholarship** given to graduating students who show **strong academic performance**.
- Recipient of the SHSM **scholarship** for receiving the **ICT-SHSM** seal on my **OSSD** after meeting the requirements from the Ministry of Education.

Independent Projects

Discord Bot Host

July 2020

JAVA WEB-SOCKET APPLICATION WHERE THE USER UPLOADS THEIR OWN DISCORD BOT AND HOST IT ON A DEDICATED MACHINE.

- **Client** application implements **JAVA Swing** for an intuitive **GUI**.
- **Server** application uses **multi-threading** to allow for multiple bots to be hosted at once.
- **Server** application will **host** the bot automatically once it is received by the **client** application.

Spotify App

April 2020

JAVA APPLICATION THAT MODIFIES USERS SPOTIFY PLAYLISTS AND QUEUE.

- Implements the **Spotify Web Client API for JAVA** to give the user a quick and easy way to add songs to their queue.
- Input is prompted by an instinctive terminal interface for a quick and simple user experience.
- Utilizes an **automated authentication** process for quick access to the the main functionality of the program.

Code Grader

Mar. 2020

A JAVA SERVER CLIENT APPLICATION USED TO GRADE C PROGRAMS.

- A **JAVA** application where a **Windows client** sends a **C** program to a **Linux server** to be ran against test cases to generate a **submission report**.

Chess

Dec 2019

CHES IMPLEMENTED IN JAVA SWING.

- Implements a **graphical user interface** using the **JAVA Swing API** for an intuitive user experience.
- Uses **polymorphism** and **inheritance** to make the chess pieces.

BennixMusic.com

May 2020

CO-AUTHOR/MENTOR

- Volunteer project to help a friend create website for his private business and to **teach** him basic **HTML/CSS**. Works on mobile and desktop.

Skills

Operating Systems: Linux, Windows

Programming: JAVA, C++, Python, C, Bash, FLEX, CUP

Front End: HTML, CSS, JavaScript

Back-end: PHP, SQL, REST API

Work Experience

Teaching Assistant

Windsor, ON CANADA

SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF WINDSOR

Aug. 2019 - Present

- Responsible for communicating the abstract steps of **problem solving** in an intuitive manner to students and grading coursework accurately.

Competitions and Conferences

WinHacks

Windsor, ON Canada

PARTICIPANT

Sept 2020

- Created the Smile Finder **Web App** that detects when the user is smiling using the **ImageAI Python API**.
- Smile Finder implements the **Flask** framework for **Python** to host the **Web App**.
- Smile Finder utilizes the **OpenCV Python API** for **computer vision** and displays the live video feed on a **web-page**.

Delta Hacks VI

Hamilton, ON Canada

PARTICIPANT

Jan 2020

- Gained experience with **REST API's** and **mobile development** while learning the fundamentals of **Dart** and **Flutter** programming.