

Skills

- Experienced Languages: JavaScript, Python, Java, C, HTML, CSS, Learning Languages: C++, SQL, Bash, Assembly x86
- Frameworks: Express.js, React.js, Node.js, Bootstrap
- Technologies: MongoDB, IBM DB2, Git, Linux

Education

Bachelor of Engineering, Software Engineering, McMaster University

Sept 2018 - Apr 2022

- Culminative GPA of 3.8 on the 4.0 Scale
- 2x Dean's Honour List Placement
- McMaster Honour Award Scholarship
- Relevant Courses: Data Structures/Algorithms, Databases, Concurrent System Design, Computer Architecture, Software Specifications/Requirements, Linear Optimization, Discrete/Engineering Mathematics

Extracurriculars

1st Place NASA SpaceApps Hackathon - (Express, React, Node, Bootstrap, Fast-Paced, Teamwork) 

Oct 2020

- Our team won first place for our web application that allowed users to find nearby space related facilities
- My responsibility was to build the navigation bar, footer, design the interface to show nearby location on the map when pressed, and the backend connecting to the Google Maps API
- User can enter a location (or use current location) and a radius to find facilities and display those nearby facilities using a Google Maps interface
- Goal was to increase engagement in the field of astronomy by giving an easy tool for finding nearby astronomy centers
- Completed in 32 hours

Robotics Team Leader - (Leadership, Organization, Planning, Efficiency)

Sept 2016 - Sept 2018

- Won 2nd place in Conestoga College competition and participated for all rounds in University of Ontario IT competition
- Responsible for writing final reports, assigning roles, and helping facilitate meetings/designing for battery efficiency
- Created mini robots to compete in robot wrestling and racing events using custom materials/programming languages

Projects

Jam Together - (MongoDB, Express, React, Node, Solo-Build, Self-Discipline) 

Oct 2020 - Present

- Ongoing web application project to allow musicians to form bands online during pandemic
- Allows users to create an account and connect through voice to play their instruments together and make friends
- Users will be able to note which instrumentalists they're looking for, the musical key to be played in, etc.
- Includes frequency visualization using Web Audio API

Tagwell - (Android, Java, JSON Database, Duo-Build, Decision-Making) 

March 2020 - April 2020

- An Android application to allow users to find Tweets given inputted keywords and hashtags using a Twitter JSON database
- Responsible for designing the sorting algorithm to sort by popularity, parsing the JSON data, and design decisions
- Allows marketers to see if certain topics are currently popular, and to help find their associated type of target audience

Other Experiences

Programming Club - Creator - (C, Initiative, Teaching, Presentation Skills)

April 2018 - June 2018

- Co-created first ever programming club in my secondary school
- Taught grade nine students basic coding principles with C

Breakfast Initiative - Meal & Room Preparer - (Cooperation, Work Ethic)

Sept 2016 - June 2018

- Helped every morning to cook free meals and prepare rooms for students in need
- Often delivered free food directly to the nearby homeless