

Daniel Mohazab

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Skills

- Proficient in C++, HTML/CSS, and RobotC
- Familiar with Python, C, Java, JavaScript, and JQuery
- Experience using Android Studio, Bootstrap, Git, SolidWorks, L^AT_EX, and Chrome Debugger

Projects

RobotC-Major

C++ - RobotC

- Designed a guitar playing robot using the Lego EV3, NXT, and Tetrix Prime embedded systems
- Used parallel list implementation to play songs by manipulating encoder values of 6 motors, automating the strumming and chording mechanisms
- Developed an interactive UI that allows for multiple song and tempo options using binary selection
- Re-calibrated mechanisms when terminating a song by multitasking an encoder-driven method

AutoBalance

Java - Android SDK

- Designed a mobile application using Android Studio that increases closing speed by 50% when balancing Scotiabank's transaction logging system
- Compiled user inputted treasury data using currency classes to optimize end-of-day efficiency

SiteSpider

Python

- Developed a web-crawling spider that collates links to create a sitemap of my personal portfolio
- Implemented a queue and set system to eliminate repetitive crawling of common links
- Used multithreading to concurrently run spiders, optimizing crawling efficiency of large sets

Github.io - Personal Portfolio

HTML - CSS - JQuery

- Created a responsive personal website using Bootstrap, JQuery, and a self-established grid system

Work Experience

Scotiabank

Customer Service Representative

Waterloo, Ontario

Oct. 2016 - Oct. 2017

- Fulfilled customer needs by engaging in tasks such as wire transfers, business transactions, account maintenance, and financial inquiries
- Developed interpersonal and communication skills through working in a goal-driven and team-oriented professional environment

Education

Candidate for B. ASc. in Mechatronics Engineering

University of Waterloo 2017 - 2022

Interests and Activities

- Captain of several district and regional level competitive Soccer teams
- Hiking, Running, Travelling, Basketball, and Video Editing