

# Josh Barton

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## EDUCATION

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### University of Utah, Salt Lake City, Utah

GPA - 3.96

*Master of Software Development, Dec 2024*

- Intro to Software Development, Computer Programming, Data Structures & Algorithms
- Computer Systems, Networks & Security, Software Engineering, Database Systems & Applications, Data Analysis & Visualization, App System Design

### Brigham Young University, Provo, Utah

GPA - 3.50

*Bachelor of Science: Exercise Science, Apr 2022*

- Statistics, Physics, Chemistry, Organic Chemistry, Biochemistry, Physiology, Anatomy, Biology

## SKILLS

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**Programming Languages** - C++, Java, C#

**Soft Skills** - Collaboration, Problem Solving, Organization, Detail-Oriented, Reliable, Quick Learner

**Software Architecture** - Model-View-ViewModel (MVVM), Model-View-Controller (MVC)

## PROJECTS

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### TetraSki Calibration Project - C#, .NET Maui - Portfolio Page

Current Project

- Developed a calibration application that connects to a Low-Energy Bluetooth Device (ANR Corp M40 Sensor), receives inputs from the device, reduces noise, and determines an appropriate threshold to determine when a voluntary muscle contraction from a user has occurred.
- Outputs from the application will be used as inputs to the TetraSki adaptive ski chair to allow users to use voluntary muscle contraction to direct the ski as they go down the mountain.

### MSDscript Project - C++, QT Creator - [Portfolio Page](#)

Jan '24-Apr '24

- Developed an interpreter called MSDscript, a Domain-Specific Language that supports numeric operations, variables, boolean expressions, conditional statements, and function definitions.
- The app parses input strings into expression objects, evaluates them, and performs operations accordingly. In addition, I created a user interface to make interacting with the application simpler for the user.

**Additional Projects** - See [Portfolio Website](#)

## WORK EXPERIENCE

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### BRIGHAM YOUNG UNIVERSITY, Provo, Utah

*Financial Aid Office Assistant, Jan 2019 – May 2022*

- Communicated daily with 50+ students to help them receive Federal Financial Aid.
- Maintained and organized excel spreadsheets containing data for thousands of students.
- Interacted daily with university software and databases to look up student information.

## VOLUNTEER EXPERIENCE

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*Volunteer Representative - The Church of Jesus Christ of Latter-Day Saints, Aug 2015-Jul 2017*

- Responsible for teaching individuals about the influence of religion in their life.
- Trained 4 volunteers for 6 weeks each on how to effectively communicate and serve.