Zack **Holmberg**

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EDUCATION

B.C.Sc. Honours (Co-op option)
- Graduating: **Spring 2022**
- GPA since 2018: **3.94**

TECHNICAL SKILLS

Languages

- Go
- Java
- Python
- Web Stack (JS, CSS, HTML)
- C#
- SQL

Libraries/Frameworks

- React Native
- Redux
- TypeScript
- Git
- jQuery
- Firebase
- Google Analytics

Software

- Visual Studio Code
- Azure DevOps
- Slack
- Android Studio
- Xcode
- Postman
- Atlassian DevOps

INDUSTRY EXPERIENCE

Software Developer | **Bold Commerce**   **Sept 2020 – Dec 2020**
- Implemented a wide range of functionality for existing micro-services that enable interaction between the company's e-commerce apps and various e-commerce platforms.
- Solved complexities by developing a new micro-service that handles customers' address data between platforms.
- Identified and resolved bugs within the existing implementation.
- Actively participated in many design and decision meetings where candidate implementations were compared and contrasted among team members to arrive at an optimal solution.

Application Developer | **iQmetrix**   **Jan 2020 – Apr 2020**
- Developed the front and back end of cross-platform reusable and modular components and packages, intended to be consumed by mobile applications within the company.
- Worked with various APIs and services within the company to retrieve and transform data for use in the front end.
- Developed key features such as the ability to lock/unlock the app, accept a customer's signature on the device during a sale and scan/process barcodes.
- Selected to participate in the interview process for recruiting co-op students.

Freelance Web Developer | **Various Employers**
- **Pro Stock Hockey Sticks**   **Jun 2020 – Oct 2020**
  - Designed and implemented the front end and back end of a dynamically updated table for a Shopify site that displays custom data on the hockey stick used by the top players in the NHL.

- **Manitoba Alliance of Post-Secondary Students**   **Sept 2020 – Oct 2020**
  - Conducted requirement gathering with stakeholders.
  - The site featured a dynamic calendar, ability to create news posts and imbedded social media feeds.

- **University of Manitoba Students Union**   **Jun 2019 – Aug 2019**
  - Improved user experience by redesigning the overall UI of the UMSU website.

Web Coordinator | **Manitoba Government, Finance Department**   **May 2019 – Aug 2019**
- Increased efficiency within the department by designing and developing new internal web applications.
- Updated and maintained Finance Department internet, intranet, and collaboration sites.

EXTRA CURRICULAR

Member | **.devClub & Computer Science Students Association (CSSA)**   **Sept 2017 – Present**
- General member of the .devClub student group and the Computer Science Students Association at the University of Manitoba.

Undergraduate Representative | **Senate Committee on Academic Computing**   **Dec 2018 – Dec 2020**
- Received, reviewed, prioritized and made recommendations to the University of Manitoba Senate, as appropriate, about proposed IT initiatives related to teaching and learning.

PROJECTS

Blockchain for Education - Honours Project

Go, Python

- Designed and developed a fully functional cryptocurrency blockchain implementation using my idea of a modular blockchain. The blockchain was developed to be used as a pedagogical tool, with consultation from various stakeholders consisting of professors within the department. The implementation includes a peer-to-peer network, blockchain peer nodes on the network, a middleware and clients.

2019 & 2020 UMSU Campaign Website

HTML5, CSS, Javascript, jQuery, Google Analytics, Firebase

- A website for candidate, now elected, campaigns for the 2019 and 2020 University of Manitoba Student's Union Election. Both sites had about 1500 unique users. The sites were hosted with Firebase and tracked with Google Analytics.

Random Meme Chrome Extension

HTML5, CSS, Javascript, jQuery, Reddit API

- A Chrome extension that uses the Reddit API to pull the top posts from predetermined subreddits to build a queue of memes for viewing within the extension's UI.

2018 MLH Local Hack Day - Local Drop-ship Project

HTML5, CSS, Javascript, jQuery

- Developed the front-end of my team's project for the 2018 Major League Hacking Local Hack Day.