

Brock Chelle

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Engineering Co-op Program
University of Alberta

University of Alberta Academic and Co-op Status

Computer Engineering - Software, BSc Co-op	Class of 2022
Cumulative Grade Point Average	3.7/4.0
Completed Academic Terms	7 of 8
Completed Co-op Work Terms	2 of 4
Next Work Term	May - December 2021

Computer Experience & Skills

Languages: Typescript, Javascript (Including NodeJS), Python, C/C++, Swift, Java, HTML, CSS.

Libraries & Frameworks: React, JQuery, ExtJS, Express, Mongoose, SASS.

Databases: MongoDB, Firebase, SQLite, MySQL.

Operating Systems: Windows, Ubuntu, macOS.

Version Control: Git (Github, Gitlab), Subversion.

Other: Figma, MSOffice, Google Drive, Jira, Confluence, Crucible.

Work Experience

Willowglen Systems Inc, Edmonton, AB	January - September 2020
Software Developer	
<ul style="list-style-type: none">Developed a backend application with C++ used to save the lives of metro-rail track workers.Created a front-end application with JQuery, HTML, and CSS, which compiles reports for safety and system accuracy.Designed and Implemented several front-end components with ExtJS for a client upgrade project; these new components were approved and applauded by the client.Led multiple company update meetings with 30+ attendees, resulting in company-wide clarity regarding each active project's status.	

Extracurriculars

Google Developer Student Club, Edmonton, AB	September 2020 - April 2021
Technology Lead	
<ul style="list-style-type: none">Overlooked the technological design and development of all projects conducted.Responsible for code design and efficiency.Mentored new club members.Collaborated with companies and leaders of other clubs to expand the organization's network.	

Personal Projects

CollaboGreat - Team Collaboration

Full-Stack Web Application

- Developed an internal **REST API** with **NodeJS** and **Express** used to handle client requests and perform CRUD operations on a **MongoDB** Database.
- Implemented user authentication using the **OAuth** protocol, which allows users to authenticate with their existing Facebook, Google, or Github accounts.
- Created a front-end Single-Page Application with **React**, **Redux** and **Material UI**.
- Hosted the API on Digital Ocean with **NGINX** web server.

Live Site: <https://collabogreat.brockchelle.com>

KeepIt – Item Tracker

iOS Application

- Developed an **iOS** application with **Swift** that helps users keep track of their belongings.
- Used **Google Firebase** for authentication, cloud storage, and to store user information.
- Implemented the **MVC** design pattern to separate the UI from the data.
- Currently has 500+ App Store downloads and 0 crashes to date.

App Store URL: <https://apps.apple.com/ca/app/keepit-item-tracker/id1474698806>