

# Brock Chelle

[Portfolio Website](#) | [LinkedIn](#) | [GitHub](#) | [brockchelle@gmail.com](mailto:brockchelle@gmail.com) | 780-691-9876 | Edmonton, Canada

## Work Experience

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**Tesla**, Palo Alto, USA (Remote)

May - December 2021

Full Stack Engineer Intern

- Developed **GRPC** microservices in **Go**, **REST APIs** in **Rails**, and UIs with **React** in a production environment used by over 1,000,000 customers every day.
- Took leadership in the administration and development of an identity and access management platform used by over 10,000 employees.
- Wrote unit, integration, and end-to-end tests with **RSpec** and **Ginkgo** with every commit I made.
- Automated testing, building **Docker** images, and deploying to **Kubernetes** using **Concourse**.
- Improved the performance of several endpoints used over 1,000,000 times per day by utilizing Sidekiq workers and Redis.

**Willowglen Systems Inc.**, Edmonton, AB

January - September 2020

Software Engineer Intern

- 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.

## Personal Projects

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**CollaboGreat - Team Collaboration**

Full-Stack Web Application

- Developed an internal **REST API** with **NodeJS** and **Express** to handle client requests and perform CRUD operations on a **MongoDB** Database.
- Implemented user authentication using the **OAuth** protocol, allowing 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 storing user information.
- Implemented the **MVC** design pattern to separate the UI from the data.
- Currently has over 1000+ App Store downloads and 0 crashes to date.

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

## Education

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**University of Alberta**, Edmonton, AB  
Computer Engineering - Software, BSc  
GPA: 3.7/4.0

September 2017 - April 2022

## Computer Experience & Skills

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**Languages:** Go, Ruby, Typescript, Javascript, C/C++, Swift, Python, Java, HTML, CSS.

**Libraries & Frameworks:** Rails, React, JQuery, NodeJS, Express, SASS.

**Databases:** MySQL, SQLite, MongoDB, Redis, Firebase.

**DevOps:** Git, Docker, Kubernetes, Concourse, Splunk, Grafana.

**Operating Systems:** Windows, Ubuntu, macOS.