

# Bradley Herrera Contreras

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## Skills

**Programming Languages** Python, JavaScript, TypeScript, C++, SQL, R, HTML/CSS  
**Libraries/Tools** English (Native), French (Fluent), Spanish (Fluent)  
Git, Pandas, React, Next.js, Node.js, Numpy, Matplotlib, Gatsby, Material UI, SASS, Power BI

## Leadership

### Frontend Developer 🛠️

Waterloo, ON

HACK THE NORTH

Mar. 2023 – Present

- Building the Hack the North website and hacker dashboard using **React** and **TypeScript** for over **3,000 hackers**.

### Full Stack Lead

Waterloo, ON

WATERLOO TECH+

Jan. 2023 – Present

- Redesigning a **Python** script to match over **40 students** with mentors to facilitate relationships with mutual interests.

### Lead Developer

Waterloo, ON

WATERLOO DATA SCIENCE CLUB

May 2022 – Jan 2023

- Founded the Development Team to build technical community projects **increasing student engagement by 30%**.
- Led a team of **7 developers** in the creation of a modern website and Discord Bot to boost social media interactions.

### Vice President of Finance

Waterloo, ON

WATERLOO DATA SCIENCE CLUB

Aug 2021 – Jan 2022

- Strategically **reallocated over \$2,500** in spending to successfully organize a Club hackathon with over **50** participants.
- Delivered clear and efficient financial reporting which **improved stakeholder satisfaction by 40%**.

## Projects

### Waterloo Data Science Club Website 🛠️

- Designed and built the club website using **React** and **Next.js** while leveraging **Git** for version control across the team.
- Accelerated team information and media updates by **50%** using **JavaScript** to dynamically cast data onto website.
- Automated media feed by developing scripts using the **YouTube Data API** which **eliminated need for maintenance**.
- Implemented **Material UI**, **SASS**, and **React components** in design decisions to contribute **high quality code**.

### Interactive Glucose Visualization Dashboard 🛠️

- Developed the pre-processing of over 2 years of Type 1 Diabetes glucose data using **Python Pandas**.
- Created an **interactive dashboard** including 3 plots, 1 interactive table, and 2 search widgets using the **Panel** library.
- Configured project environment in **GitHub** to deploy web application using **Heroku**, providing online access for users.

## Experience

### Performance Analyst

Remote

DESJARDINS

Jan 2022 – Apr 2022

- Performed **exploratory data analysis** on over 20 large-scale datasets to analyze and quantify business performance.
- Shared over **10 scripts** in **SQL** and **SAS** to automate and simplify data manipulation for the team.
- Delivered 10 presentations, clearly **communicating quantifiable business intelligence** to stakeholders.

### Office Associate

Kitchener, ON

DESJARDINS INSURANCE

May 2021 – Aug 2021

- Acquired and managed over **\$40,000 in revenue** among new business contacts.
- Built over **100** new, long-term points of contact with clients, delivering long-term profitability.

## Education

### University of Waterloo & Wilfrid Laurier University

Waterloo, ON

BACHELOR OF COMPUTER SCIENCE & BACHELOR OF BUSINESS ADMINISTRATION

2020 – 2024

- Ontario **French Bilingual Certificate** (2020)
- Relevant Coursework: Data Structures, Algorithms, Object Oriented Software Development, Operating Systems
- UW President's Scholarship of Distinction, Waterloo County Scholarship, Governor General's Award