

Bradley Herrera Contreras

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Skills

Programming Languages Python, JavaScript, TypeScript, C++, SQL, R, HTML/CSS
Libraries/Tools Git, Pandas, React, Node.js, D3.js, Numpy, Matplotlib, Gatsby, Material UI, SASS, Power BI

Experience

Software Engineering Intern

ARCTURUS NETWORKS

Remote

May 2023 - Aug 2023

- Building a real-time video analytics dashboard using **socket.io** and **React** on the Embedded Machine Vision team.

Performance Analyst

DESJARDINS

Remote

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** that streamlined data manipulation saving **25%** more time.
- Optimized financial investments of over **\$50,000** by delivering **10 presentations** highlighting data-driven insights.

Projects

Visual Scroll Article: Explore the STEM Gender Gap 📄

- Built a scrollytelling article using **React** and **TypeScript** that explores the STEM gender gap across the world.
- Created **7 interactive data visualizations** using **D3.js** that allow users to explore the data with custom widgets.

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 future updates by **50%** using **JavaScript** and **APIs** to dynamically cast data and automate social media.

Interactive Glucose Visualization Dashboard 📄

- Developed the pre-processing of over 2 years of my 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.

Leadership

Frontend Developer 📄

HACK THE NORTH

Waterloo, ON

Mar. 2023 – Present

- Building the Hack the North website and hacker dashboard using **React** and **TypeScript** for over **1,000 hackers**.

Full Stack Lead

WATERLOO TECH+

Waterloo, ON

Jan. 2023 – Present

- Redesigned a **Python** program to match over **40 students** every term with mentors based on common interests.

Lead Developer

WATERLOO DATA SCIENCE CLUB

Waterloo, ON

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 DATA SCIENCE CLUB

Waterloo, ON

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%**.

Education

University of Waterloo & Wilfrid Laurier University

BACHELOR OF COMPUTER SCIENCE & BACHELOR OF BUSINESS ADMINISTRATION

Waterloo, ON

2020 - 2025

- Relevant Coursework: Data Structures, Algorithms, Object Oriented Software Development, Operating Systems