

Ernesto Barreto

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Skills

- Python | C | C++ | Java | JavaScript | Machine Learning | DBMS | MySQL | Git | OOP | Node | LaTeX
- Flask | Redis | GO | Frontend | Backend | Full-Stack | English, Spanish – *fluent* | Japanese – *business level*
- Software testing | Teamwork | Software maintenance | Automation | Results oriented | Public speaking
- Microsoft Excel | Microsoft Word | Microsoft PowerPoint | Problem solving | Root cause analysis

Experience

VP ACADEMIC | COMPETITIVE CODING CLUB | UNIVERSITY OF CALGARY | SEPTEMBER 2022 – CURRENT

- Club focusing on preparing students for the Alberta Collegiate Programming Contest (ACPC) the Calgary Collegiate Programming Contest (CCPC), and the ACM International Collegiate Programming Contest. Preparation happens through regular meetings, competitions, and workshops.
- As part of the Academic Executive team, designed, debugged, tested, solved, and implemented coding challenges to be solved by club members as well as to be uploaded to Kattis. Problem creation requiring use of prominent industry languages such as **LaTeX** for formatting, **Python** and **C++** for automatic solution testing.
- Designed and implemented coding challenges to be used in official ACPC and CCPC competitions.
- Supervised and provided help to ACPC and CCPC contestants.

SOFTWARE ENGINEER | SCHULICH RACING | OCTOBER 2022 – CURRENT

- Club features an interdisciplinary team of students from the University of Calgary who design and manufacture an open-wheeled racer to compete in the Formula SAE series of competitions.
- Creating, updating, and maintaining the racing team's software using variety of front and back-end languages and frameworks as well as databases and DBMS's. **NodeJS** and **JavaScript** serving as the API gateway for browser display and other capabilities using **React** and **Typescript**.
- Working with **Python**, and **Flask** for creation and maintenance of streaming services and IoT actions.
- Experience using **GO** as a data API and **Redis** for database cache and communications.
- Experience using **C++** for creating race car metadata simulations using club databases.
- Working with other engineering discipline teams within the club, as well as with the rest of the software team.

VOLUNTEER | WESTSIDE RECREATION CENTER | JULY – AUGUST 2019

- Summer volunteer work Hockey Daily camp (6-12yrs) for 80 hours.

VOLUNTEER | WESTSIDE RECREATION CENTER | JULY – AUGUST 2018

- Summer volunteer work in Slip, Slide & Splash Daily camp (8-9yrs) for 40 hours.
- Summer volunteer work in Preschool Hockey basics (5-6yrs) for 40 hours.

Education

UNIVERSITY OF CALGARY | 2022 – PRESENT

- Finishing 2nd year of Dual Degree Software Engineering and Business student, concentration in Business Analytics.
- Deans List student 2022 (GPA over 3.60 for all courses taken while on full course load).

RUNDLE COLLEGE | 2018-2021

- Awarded Honors with Distinction (GPA greater than 91%) for all years.
- Enrolled in school band for all years as well as graduation and jazz band.

Other

- Created and moderated a Japanese-learning online platform (2018-ongoing).
- Self-taught Japanese (2017-ongoing).
- Certificate of Japanese Language Proficiency N3: The third highest level of Japanese proficiency.
- Created, led, and coordinated the graduation band.
- Conservatory Canada: Level Four (4) Piano.
- Played community hockey for 11 years.
- Hobbies: snowboarding, hockey, hiking, biking, reading, gaming, and technology.