Brandon Fong

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Education

University of Calgary Expected graduation: May 2025
Bachelor of Science in Electrical Engineering GPA: 3.58/4.00

Experience

University of Calgary - Web Developer Nov. 2022 – Present
- Developed a React dashboard web application to aggregate and display geothermal drilling data
- Utilized React, Python and PostgreSQL

University of Calgary Solar Car Team - Electrical Team Member Oct. 2022 – Present
- Improved the wiring and organization within car to make it more efficient
- Attended multiple events to promote the company to prospective students

Real Canadian Superstore - Produce Clerk Oct. 2019 – Sept. 2022
- Efficiently addressed customer complaints or concerns in a timely fashion
- Trained and led 5 new hires to proficiency

The Chinese Academy - Student Volunteer Sept. 2018 - May 2019
- Assisted teachers in maintaining order among the students
- Ensured daily tasks assigned by the teacher were finished in a timely matter

Projects

University of Calgary | Country Information Visualizer
- Documented a terminal-based application to read country statistics off external files, accept user input and return readable data
- Designed an interface that allowed users to gain access to specific country statistics and information
- Developed a python application to aggregate data using matplotlib regarding a country's population statistics

University of Calgary | Cipher Program
- Terminal-based application designed for encoding and decoding text based on a provided cipher algorithm
- Depending on the user input, the text would be decoded using a hidden cipher or encoded using an algorithm
- Handled incorrect inputs, as well as terminating only when user input requested

University of Calgary | School Statistics Program
- Designed a terminal-based application for computing, printing, and plotting statistical information given on specific school selected
- Created and manipulated arrays using the NumPy module, as well as manipulated and executed NumPy array computations
- Plotted data using matplotlib regarding school enrollment numbers

Skills

Hardware: Oscilloscope, Function Generator, Soldering, Arduino
Languages: Python, C, HTML, CSS
Technologies: React, Git, PostgreSQL, MATLAB, Fusion 360, Altium Designer, Intel Quartus Prime, Tailwind