# Zack Dorward

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**Engineering Co-op Program**

## Education

**University of Alberta,** BSc Computer Software Engineering (Co-op)

Expected Graduation: 2025
Cumulative GPA: 3.5

**Notable coursework:**

Python – Tangible Computing 1 (A)

C++ – Tangible Computing 2 (A-)

Java – Object Oriented Software Design (A)

## Skills

Languages: TypeScript, Python, Java, C++, Node, Matlab, SQL

Frameworks/Technologies: Vue, React, Flutter, Git, MacOS, Windows, Linux

## Awards

Kenway Law Memorial Scholarship in Engineering
*Feb 2021*

Faculty of Engineering Academic Scholarship
*July 2020*

George Grover Leadership Scholarship
*July 2020*

Faculty of Engineering Inspiring Leadership
*Sep 2019*

## Interests

Basketball
Rock Climbing
Chess
Economics

## Work Experience

**Software Engineer Intern,** *Darkhorse Analytics* | website
Edmonton, Alberta – Jan 2023 to Aug 2023

- Collaborated on the Phoenix Health Dashboard frontend using **Vue** and **Typescript.** Built the intro screen, Data Filters panel, Map Layers panel, and fixed bugs across the site.
- Led the development of features on AEPHIN Facilities, including the intro panel, the home community panel, and map tooltips using **Vue** and **Typescript**. Wrote **Python** scripts to load client data into frontend of the site.
- Built components and led the mobile development of the American Academy of Arts and Sciences website (in production) using **Vue** and **Typescript.**

**Data Analyst Intern**, *City of Edmonton* | website
Edmonton, Alberta – May 2021 to Dec 2021

- Used **ArcGIS Pro** to develop maps used for snow plow removal in Edmonton.
- Led the development of two procurement contracts with the City.

## Technical Projects

**Alouette,** an educational wildlife game with a quiz to assess your learning.
Western Engineering Competition – Jan 2023 | Project | Github

*Represented the University of Alberta after winning 1st place at the University of Alberta Engineering Competition in programming*

- Co-created in-browser game using **Vue** and a separate website for the quiz using **React.**
- Earned 3rd place among six university teams.

**Mindshift,** to dim your desktop screen as you get tired
natHACKS – Jul 2022 | Project | Github

- Analyzed brain wave data read through a headband and dimmed the computer screen according to the user's alertness.
- Built Chrome extension to connect to the headband via bluetooth using **Javascript**.

**LaunchPad Employees,** an employee scheduling mobile application.
Personal Project – 2019 | Project | Github

- Developed cross-platform mobile application using **Flutter** and **Firebase.**
- Uploaded to the Apple App Store and the Google Play Store.

## Extracurriculars

**Merchandise Coordinator,** *Engineering Students' Society* | May 2023 to present

- Orders, manages, and sells engineering merchandise at the University of Alberta.

**VP Internal,** *Engineering Students' Society* | May 2021 to May 2023

- Elected to oversee 100+ club volunteers and manage a team of 5 directors that controlled recruitment, human resources, merchandise, and more.