KAITLIN DE CHASTELAIN FINNIGAN

Computer Science Undergraduate

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EXPERIENCE

Back End Development Intern
IBM

📅 May 2020 – September 2021   📍 Markham, ON (Remote)

- Enhanced and containerized with Docker an Apache Spark Data Generator to create realistic large volume data sets in minimal time to test Master Data Management offerings.
- Developed features for an automated non-functional requirements testing tool to run any type of test cases on all supported platforms such as IBM Cloud and Cloud Pack for Data.
- Automated multiple tests and persisted results to Grafana Dashboard which allowed the team develop pricing models for different amounts of data.

Volunteer Future Blue Canada President
IBM

📅 Jan 2021 – September 2021   📍 Markham, ON (Remote)

- Lead a team which created multiple initiatives to support interns including casual networking event and career development events
- Analyzed engagement from different events to tailor valuable events for interns which increased overall participation by 200%

Marketing Coordinator
VizworX Inc.

📅 September 2019 – May 2020   📍 Calgary, AB

- Developed branding material which lead to increased secured contracts from sales leads
- Created company blog increasing community engagement

Software Development Intern
VizworX Inc.

📅 May 2019 – September 2019   📍 Calgary, AB

- Collaborated with the Canadian Energy Regulator and interaction designers at the University of Calgary to create a data visualization of Conditions on Energy Projects across Canada
- Developed a web application using React JavaScript in an agile development emphasizing the importance of user interaction while practicing SEO, accessibility, and data analytics principles
- Utilized Test Driven Design practices in an agile development team, creating and testing each component before putting into production
- View the visualization here

Volunteer Social Media Coordinator
Chic Geek

📅 February 2017 – February 2020   📍 Calgary, AB

- Organized campaigns for event promotion in technology and entrepreneurship for women and minorities

EDUCATION

Bachelor of Science in Computer Science
University of Calgary

📅 Fall 2017– Present   📍 Calgary, AB

- GPA 3.8 / 4.0

PROJECTS

👁 **Insight - BCI4Kids Mediapipe**
Currently in progress. Creating a website which uses Google's Mediapipe Face and Iris tracking to aid children with brain injuries communicating yes and no.

🐦 **Political Diversification Network Analysis**
Created a network of Members of Parliament, Activist Organizations and their retweeting users and used **Python, Pandas, NetworkX,** and **Gephi** to analyze Canadian Political interactions.

🌐 **Google Hash Code 2019 & 2020**
Participated in Google's annual team programming competition, a timed critical thinking challenge. The 2019 Challenge was sorting images maximizing score; 2020 was creating a book classification tool.

🗄 **Rental Property Database**
Created a website and **MySQL** database using **PHP** for server side connection for tenants and landlords to view and post rental properties.

⚙ **J-- Compiler**
Implemented a compiler for J-- language which outputs Web Assembly Text. The compiler was created in **C++**.

👥 **Schedule Optimization**
Implemented an "and-tree-based branch & bound" optimization program to create an ideal schedule for the Computer Science department in **Java**.

CLASSES

| Social Network Analysis | Algorithm Analysis |

| Software Project Management | Compilers |

| Database Systems | Operating Systems |

| Computer Networks | Artificial Intelligence |

HOBBIES

| Singing | Dance | Choral Theatre |