


CATHERINE BURNS

Systems Design Engineering student seeking co-op position for Winter 2021

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 613-897-0100

 github.com/cab40

 My website

 My LinkedIn

EXPERIENCE

Graphic Designer and Artist, Ottawa, (Freelance Sept 2015 – ongoing)

- Experience in various visual arts media including oil, acrylic, water colour, charcoal, graphite and digital.
- My artwork has been sold for fundraising and commissions.
- Designed logos for ChangeRoom app (Best Ottawa Business awards 2019).
- Designed clothing logos for varsity teams and gradwear, and created yearbook covers.

Swim Instructor & Lifeguard, City of Ottawa - Richcraft and Plant Recreation Centres (Feb 2019 – Sept 2020)

- Trained and enforced COVID-19 countermeasures to limit transmission risks at public facilities and communicated new protocols to clients.
- Demonstrated strong work ethic and taught with encouragement and positive reinforcement.
- Wrote clear and progressive lesson plans, provided detailed assessments with constructive feedback, communicated effectively with clients.
- Supervised assistants, collaborated effectively with lifeguard team during routine and emergency situations.

Community Centre Youth Staff, Qualicum-Graham Park, Ottawa, (Sept 2015 – May 2020)

PROJECTS

Linear System Solver

Using C without library functions, I created a program to solve and store user input linear systems, check solutions to previously solved linear systems, and output all linear systems.

SmartBrain

Web app using Clarifai API to detect and locate a face in a picture for user sign-in/ up. Built up of several different parts using React.js for front-end, Node.js and Express.js for backend, and finally a PostgreSQL database to log the number of entries each user has made.

Personalized Book Recommendation System

I wrote a Ruby program which reports the book most similar to a specific title based on user ratings. Recommendations were based on each book's ratings as a vector and finding the cosine angle between the two vectors.

Personal Website

Used Bootstrap for the core framework of the website to have a more responsive design as well as implementing elements of CSS grid and flexbox.

SKILLS

Programming

C	C++	Python
JavaScript	SQL	Ruby

Tools & Technologies

HTML 5	CSS 3	Git
Bootstrap 4	MySQL	API
React/Redux	Rails	Node
Photoshop	Adobe XD	

EDUCATION

Systems Design Engineering Co-op (1A)

University of Waterloo (2020 – 2025)

E-LEARNING

- UX Design Essentials Udemy
- Complete Web Developer Udemy
- Python for Everybody Coursera

QUALIFICATIONS & AWARDS

- University of Waterloo President's Scholarship of Distinction.
- Finalist - Ottawa Young at Art 2019, Art Battle Champion 2018, Art Award for 4 consecutive years.
- National Lifeguard, Red Cross Water Safety Instructor, First Aid with CPR & AED, Airway Management.

ACTIVITIES & INTERESTS

- Art, design, computer science and technology.
- Competitive soccer for Ottawa City, varsity soccer, futsal.
- Tennis (varsity tennis team captain 2019 and city tennis finalist 2018-19).
- Prom Rep responsible for event planning, fundraising and sadly re-scheduling