

Amelia Kemp

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SKILLS AND COMPETITIONS

Languages: C/C++, JavaScript/TypeScript, Python, HTML, CSS, VHDL

Competitions (C++): Junior CCC (Certificate of Distinction 2020), ECOO 2021, [DMOJ](#) contests

Other: Object-Oriented Programming, VS Code, SolidWorks, Git, Bash

EXPERIENCE

Freelance Web Developer

July 2023

University of Ottawa Department of Anesthesiology and Pain Medicine

- Created an [interactive map](#) to display locations where faculty members presented talks and workshops
- Built using **HTML**, **CSS**, **JavaScript**, and the **Leaflet** library
- Organized and presented data from **100+ presentations in 30+ cities**, in a logical and concise manner
- Developed a responsive design layout to ensure **cross-platform compatibility**

Computer Science and Math Tutor

June 2021 - January 2022

Self-Employed

- Tutored Grade 11 Computer Science (**C++**) and improved student's grade from **<50% to 77%**
- Provided tutoring and academic support to a Grade 9 Math student with a learning disability

Garden Center and Bakery Clerk

May 2023 - August 2023

Real Canadian Superstore

- Provided excellent customer service, addressed customer inquiries and facilitated purchases
- Worked **collaboratively** within a team to manage store upkeep, organization, and appearance to ensure a pleasant shopping environment

PROJECTS

[Product Joy Predictor - Chrome Extension](#)

- Built and published to the Chrome Web Store a Chrome extension for the Amazon website using **JavaScript**
- Used the **Laplacian Succession Theorem** to show the probability of a user enjoying a product

[WeatherBox](#)

- Display simulating current weather conditions using an Arduino and other hardware
- Used **C++** and LED strips to realistically mimic the sun's movement, colour, and light intensity according to the time of day and weather conditions

[Etch-A-Sketch](#) and [Rock Paper Scissors](#) Games

- Built and augmented the games while following The Odin Project curriculum
- Used **JavaScript**, **HTML**, and **CSS**

EDUCATION

University of Waterloo, Bachelor of Software Engineering

Expected May 2028

- University of Waterloo President's Scholarship of Distinction (\$2,000)
- GPA: 3.88

University of Ottawa, Technical Design Course (TDJ10)

July 2021

- Learned and applied the engineering design process, hand sketching, 3D drawings, and **3D modelling**
- Collaborated with teammates to design and model a prototype cup holder for folding chairs