

# Amelia Kemp

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## EDUCATION

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**University of Waterloo, Bachelor of Software Engineering**

Expected May 2028

- University of Waterloo President's Scholarship of Distinction (\$2,000)
- GPA: 87% (3.9/4.0)

**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

## SKILLS AND COMPETITIONS

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

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

**Tools/Other:** Object-Oriented Programming, VS Code, SolidWorks, Git, Bash, Unix, Arduino, ReactJS

## EXPERIENCE

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**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 **LeafletJS** 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

## PROJECTS

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[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 real-time weather using **embedded code from an Arduino to a microcontroller**
- Used **C/C++**, **ArduinoIDE**, **electric circuits**, and **LED strips** to realistically mimic the sun's movement, colour, and light intensity according to the time of day and weather conditions

[Personal Website](#)

- Designed and developed a personal website with **HTML, CSS, and JavaScript** to showcase software projects
- Employed version control with **Git and GitHub**, published the website using a custom domain
- In the process of reworking using **ReactJS**

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

- Developed a suite of two interactive web games using **HTML, CSS, and JavaScript**
- Built and augmented while following The Odin Project curriculum