# Amelia Kemp

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## SKILLS AND COMPETITIONS

**Languages:** C/C++, JavaScript, 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