




# Brooke Cronin

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## Skills

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Java | Python | TCL | MatLab | C | C++ | C# | VHDL | Assembly | Unreal Engine |  
Godot | HTML | CSS | JavaScript | MySQL | sqlalchemy | Object Oriented Programming |  
Operating Systems | Organization | Leadership | Time Management | Conflict Mediation |  
Problem-Solver | Interpersonal Skills | Effective Communicator | SFA+CPR-C Certified |  
Swim Instructor Certified | Lifesaving Swim Instructor Certified | NLS Certified

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## Professional Experience

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**ASIC Physical Design Co-op** 05/2022 – 09/2022 | Remote

*Groq*

- Implemented a script in TCL and then migrated to Python to condense STA reports and sort timing paths.
- Increased hardware team efficiency by 60% by optimizing a Python script and reduced compile time by 97%.

**Data Analyst**

02/2021 – 09/2021 | Waterloo, Canada

*Cronin Analysis*

- Prepared MATLAB code for numerical algorithms and data analysis with excel spreadsheets.
- Created captivating presentation slides to showcase outcomes to external stakeholders and 5 others in company.
- Improved logical thinking and creative skills when learning how to code in MATLAB to help prepare for employment.

**Lifeguard/Swim Instructor/Aquafit Instructor**

06/2023 – Present | Waterloo, Canada

*City of Waterloo*

- Monitored pool chemical levels once every 2 hours to ensure compliance with pool regulations.
- Supervised up to 500 swimmers during public swims with teams of guards.
- Led swim instruction classes of up to 10 people per class, developing customized lesson plans ensured students' skill progression.

**Lifeguard/Swim Instructor**

09/2019 – 09/2022 | Kitchener, Canada

*City of Kitchener*

- Monitored the activities of swimmers; ensured policies, rules and regulations were followed.
- Worked with teams of guards to supervise up to 175 swimmers during public swims.
- Created detailed lesson plans for learn to swim program classes ensuring all skills were covered.

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## Projects

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**Auto Commenter, Visual Studio Code Extension** 

11/2023 – Present

- Downloaded and used by over 258 developers, enhancing workflow automation for commenting in 4+ programming languages.
- Automates commenting process for Java, Python, C, C++.

**Portfolio Website** 

04/2023 – Present

- Designed and developed a responsive portfolio website from scratch using HTML, CSS, and JavaScript to showcase personal projects and skills.
- Conducted user-friendly navigation and dynamic content presentation to enhance interactivity and visual appeal.

- Optimized website performance for fast loading times and cross-browser compatibility, ensuring a smooth user experience across devices.

#### **Open Command Folder, Visual Studio Code Extension**

10/2023 – 01/2024

- Downloaded and used by 169 people.
- Opens a command prompt window from the folder that the currently opened file is in.

#### **Secret Lights Code**

09/2021 – 12/2021

- Constructed an escape room puzzle hardware prototype with LED lights and push buttons
- Learned how to use a breadboard, connected various components to a STM32F401RE board, and create C code to control the input and output components
- Learned how to create a project proposal, Gantt chart, and design document

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### **Education**

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#### **Bachelor of Computer Science (Honors)**

Present | Waterloo, Canada

*Conestoga College*

- Relevant course work: Scientific and Technical Communications, Project I: Software Implementation and Unit Testing, Project II: Team Based Software Development, User Experience Design, Software Quality I: Testing Tools and Methodologies, and Introduction to Database Systems.

#### **Bachelor of Applied Science / Computer Engineering**

2020 – 2022 | Waterloo, Canada

*University of Waterloo*

- Relevant course work: Fundamentals of Programming, and Algorithms and Data Structures.