BROOKE CRONIN

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SKILLS

- Java, JavaFX, C/C++, C#, Python, Qt, Git, Linux, Unix, Windows, MacOS
- Self-driven learner with the ability to work on multiple tasks independently, as well as in a team
- Ability to maintain a high level of detail in a fast-paced environment
- Exceptional leadership skills acquired from 3 years of lifeguarding and teaching leadership courses
- Eager to learn new skills with strong enthusiasm towards learning

PROJECTS

From Python to Java   **March 2021 – Present**

- Developed a program in Java using JavaFX to teach individuals that already know how to code in Python how to code in Java
- Created an extensive plan for coding and testing to ensure that the code worked as intended
- Learned how to use JavaFX and be able to add it to future projects to improve the UX experience

Secret Lights Code   **September 2021 – December 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

EXPERIENCE

Groq, *Remote, Canada*   **May 2022 – September 2022**
ASIC Physical Design

- Implemented a script in TCL and then migrated to Python to condense STA reports and sort the timing paths
- Learned how to improve my code and cut the compile time down from 2 minutes to 5 seconds
- Helped improve the efficiency of the Hardware team with my Python script

Cronin Analysis, *Waterloo, ON*   **February 2021 – September 2021**
Data Analyst

- Developed MATLAB code for numerical algorithms and data analysis using excel spreadsheets
- Created presentation slides to showcase outcomes to external stakeholders
- Improved my logical thinking and creative skills when learning how to code in MATLAB to help me prepare for this employment

City of Kitchener, *Kitchener, ON*   **September 2019 – September 2022**
Lifeguard / Swim Instructor

- 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

EDUCATION

University of Waterloo, *Waterloo, Ontario*   **Incomplete**

- Candidate for Bachelor of Science in Computer Engineering