Finnley Howald

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EDUCATION

McGill University   **May 2026**
B.Sc., Computer Science   *Montreal, QC*
- 4.0 GPA
- Dean's Honour List

WORK EXPERIENCE

Rosalind & Morris Goodman Cancer Institute, McGill University   **Feb. 2023 – Present**
Research Assistant   *Montreal, QC*
- Developing biological models of breast cancer initiation and progression using Python and the Compucell3D library.
- Analyzing simulation results using computational modelling techniques to contribute to cancer research.
- Presenting findings and updates to lab members in order for them to study results from simulations.
- Learned about the cellular processes involved in breast cancer initiation so it could be modelled and visualized.

Mount Sinai Hospital – Cardiology Lab   **July. 2022 – Sept. 2022**
Intern Software Developer   *Toronto, ON*
- Learned how to interpret electrocardiogram signals.
- Analyzed heart pressure forms using Python.
- Worked on a graphical user interface so data could be analyzed by lab members with no coding background.
- Communicated code to peers and documented GUI functionality with flowcharts and comments.

PROJECTS

All Rat Remains (Video Game) | Unity, C#   **Jan. 2023**
- Developed a puzzle video game using Unity.
- Awarded "Best Audio Design", presented by Ubisoft at McGameJam 2023.
- Created scripts for character movement, a following camera, and the dash mechanic using C#.
- Collaborated with a team of developers and designers to bring the game to completion.
- Link to project page: https://ethearian.itch.io/all-rat-remains

Snake | Java   **Feb. 2023**
- Created a game in Java, similar to the retro game Snake.
- Implemented doubly linked lists for efficient in-game dynamics and object tracking.
- Devised an algorithm for parsing directional input and translating it into the snake's movement.

Personal Website | HTML, CSS, JavaScript   **Jan. 2023**
- Ensured responsive and adaptive design for optimal viewing on multiple devices and screen sizes.
- Link to website: https://finnley111.github.io/finnley-howald/

SKILLS

Natural Languages: English, French (Intermediate)
Formal Languages: Python (Proficient), Java (Intermediate), HTML/CSS (Proficient), JavaScript (Intermediate), C# (Intermediate), C (Intermediate), C++ (Intermediate)
Other Skills: Microsoft Office, Adobe Suite