Education

Bachelor's of Computer Science, **University of Waterloo** (2016 to 2021)

- Alumnus of the Waterloo Math in Europe Program (Summer, 2017).
- Took courses on Concurrent programs, Operating Systems and Sequential Programming using MIPS and OS161-

Volunteering

Mentor, Hackathons and Tech+

- Ran workshops on web development with HTML CSS, and JavaScript.
- Took initiative in leading the mentors to helped facilitate coaching for more students

Head Leader, **Waterloo Orientation**

- Responsible for coordinating a team of 8 volunteers to lead over 100 first year students in their orientation activities.
- Learned to coordinate with staff and other team leaders by radio.
- Trained and certified in Emergency First Aid

Technologies Languages

Unity3D

NodeJS

PostgreSQL

ExpressJS

JQuery

ASP.NET

IBM Cloud

Firebase

Google Cloud

React

- C
- C#
- Python
- Java
- HTML/CSS
- **JavaScript**
- **MIPS**
- French
- SQL
- - OS 161

Work Experience

Co-op Programmer, Blackbird Interactive

Sept. 2020 to Present

- Developed new gameplay systems, UI components, and workflow improvements for an upcoming real-time action-strategy title.
- Collaborated with artists and designers in an iterative gameplay design process.
- Worked in a C++ engine based on Entity Component System architecture.

Software Engineering Intern, Inkling

May. 2020 to Aug. 2020

- Created new endpoints and features for Inkling's RESTful API.
- Collaborated with engineers to perform both manual and scripted QA, find bugs, push hotfixes, and deliver weekly releases.
- Performed code reviews for the team, giving detailed feedback and approving pull requests.

Co-op Programmer, Next Level Games

Sept. 2019 to Dec. 2019

- Worked with both programmers and content creators to fix bugs and create workflow improvements for NLG's tools and game engine.
- Created additional control schemes and a flexible hotkey system to help the studio transition its toolset from 3ds Max to Maya.
- Designed and built a new animation blending tool for NLG's Character Editor.

Associate Developer, Motive Studios (EA)

Jan. 2019 to Apr. 2019

- Developed workflow improvements for a variety of tools used by artists, writers, voice directors, designers, and other content creators.
- Implemented new mechanics and gameplay components into production code based on the design and later feedback of gameplay designers and testers.
- Worked in C# and C++ on large codebases with over 3 million lines, such as Frostbite and the Frostbite Editor.

Personal Projects

BunkerBoxerBot

Jul. 2019 to Aug. 2019

- An Al which plays the classic real-time strategy game Starcraft, developed for the 2019 Aiide Starcraft AI competition.
- Manages the economy, production of units and buildings, collection of information, and directs individual units during combat.
- Built in C++ using the open-source BWAPI library to interact with the game.

Gachoful Girlfriend

June 2019

- A rhythm-based bullet-hell dating simulator where the main love interest is a goose
- Won most polished game of the summer 2019 Waterloo Game Jam

Cozy Roads

Sept. 2018

- Won Best Use of Google Cloud Platform at Hack The North, a 36-hour hackathon at the University of Waterloo.
- Created to help people find the safest possible route to their destination.