



Skills/Knowledge

- JavaScript Node, MongoDB, HTML/CSS **5 years**
- Python Flask, PyTorch, OpenCV **4 years**
- C# Unity, OculusVR, WPF **3 years**

Key Projects

Tabular

- Designed a **Python**-based hotkey tool that triggers upon **OpenCV** facial recognition
- Implemented low-latency **FFMPEG** video streaming to quickly detect faces
- Winner of Hack the North 2020++

Wallpaper Wizard

- Independently developed a **C# WPF** desktop tool to change the user's wallpaper based on the weather and time of day
- Utilized common UX principles such as Hick's Law to create an effective user flow
- Over 1700 downloads on itch.io

Communol

- Independently developed a real-time, collaborative whiteboard built on **Node.js** using **Websockets**
- Designed a compute-efficient **Mongo** database to provide a truly infinite space to jot down ideas

OEF Scheduler

- Designed and developed a **REST API** in **Node.js** to schedule tournament matches for the Ontario Esports Federation
- Tested API with Postman and with various test cases to ensure all teams were matched properly by availability
- OEF Scheduler was used for OEF's CS:GO Wingman tournament at launch

Experience

Logistics Organizer - JAMHacks V

Fall 2020-Summer 2021

- Organized Waterloo's largest high school hackathon
- Contacted and professionally communicated with sponsors
- Collaborated with fellow organizers to set up the judging system

Tennis Instructor - Upper Beechwood II Pool

Summer 2019-Summer 2020

- Planned lessons covering numerous tennis skills for children aged 4-14
- Delivered constructive feedback to children and parents about each child's progress

Aquatic Assistant - Waterloo Recreation Centre

Fall 2018-Winter 2019

- Assisted swimming lessons for children aged 4-10
- Facilitated communication between parents and instructors
- Worked one-on-one to accommodate children with special needs

High School Volunteer - ESQ Summer Camp

Summer 2018

- Assisted children aged 8-12 with various software-related activities
- Instructed Scratch, Blender, and Unity to allow campers to create their own games

Education

- Candidate for Bachelor of Software Engineering, University of Waterloo, Waterloo, ON | 2021-2026