# Tommy Huang

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## SUMMARY

- **Experienced**: Skilled in software development from 4 previous co-op terms and multiple projects.
- **Proficient**: Worked with a variety of languages and tools such as Python, TypeScript, and Node.
- **Self-learner**: Designed and built different projects, for fun and during hackathons.

## EDUCATION

**University of Waterloo**                                                          Waterloo, ON

*Bachelors in Computer Science; cumulative GPA: 91.76%; major average: 93.89%*        *Sep 2019 – Apr 2024*

## EXPERIENCE

**Arctic Wolf**                                                                     Waterloo, ON

*Security Developer*                                                                *May 2022 – Aug 2022*

- Developed improvements to an internal Python application used for security investigations, allowing developers and view a summary of the outcome.
- Created tests to verify that a few hundred symbolic links in different folders exist and resolve to the correct file.
- Fixed a tool used daily by security developers to help classify ransomware and automatically create configuration changes by correcting how it pushes changes to the Git repository.

**DarwinAI**                                                                        Waterloo, ON

*Full Stack Developer*                                                              *Sep 2021 – Dec 2021*

- Expanded services using Node.js and Flask to facilitate using AI for defect detection for manufactured parts.
- Collaborated with other developers to create an Angular image viewer that allows a user to inspect an image and provide feedback on the AI defect detection and classification.
- Wrote unit tests using Jest and Pytest for various backend applications to ensure close to 100% code coverage.
- Validated the performance and behaviour of SQL functions and backend services by creating system tests which generated millions of data entries in a PostgreSQL database.

**Uptake Canada**                                                                   Mississauga, ON

*Full Stack Developer*                                                              *Jan 2021 – Apr 2021*

- Developed an application using Angular, NestJS, and TypeORM, which generates completed PDFs from editable templates, saving hundreds of developer hours each year.
- Integrated various analytics of oil samples into an existing web application using Ext JS and NestJS, allowing users to see warnings and alerts for various vehicle compartments.
- Presented demos of new features and products to senior business analysts and managers.

## PROJECTS

**Signal Relay**                                                                    *Jun 2021*

- Developed a [puzzle game in Unity](puzzle game in Unity) as part of GMTK Game Jam 2021.
- Players would control multiple robots that each required line of sight to either a relay or another robot to reach the end zones of each level.

**Vm**                                                                              *Nov 2020 – Dec 2020*

- Designed a Vim-like text editor using object-oriented design principles and the Model-View-Controller pattern.
- Developed the program from scratch using C++ and the ncurses library.

## PROGRAMMING SKILLS

**Languages**: Python, Typescript, C++, C#, Bash, SQL   **Technologies**: Git, Linux, Docker, Node, Jenkins