STAISHA NEVILLE

sjnevill@uwaterloo.ca — github.com/Staisha-N

EDUCATION

University of Waterloo *Sept 2021 – April 2026*
Bachelor of Applied Science – **Computer Engineering**, Co-op (Honours)
Relevant courses: **Compilers**, Data Structures and Algorithms

SKILLS

Programming Languages: Python, C++, Go, SQL
Tools: Pytorch, Angular, Node, ASP.NET, Azure, MongoDB, Studio3T, Docker, Git

EXPERIENCE

Full-Stack Software Developer Jan – April 2024
GenText AI Inc. *Toronto, ON*

- Nominated for **Co-op Student of the Year Award** and received a ranking of **Outstanding** by employer
- Led the creation and deployment of projects in **Azure**, using **cloud engineering** skills for effective project delivery
- Created client and server-side code for two chat-bot add-ins for Microsoft Word, using **Angular**, **C#** and **.NET**
- Added audio upload using OpenAI's speech-to-text **Neural Network**, leading to a 20% increase in user engagement

Full-Stack Software Developer May – Aug 2023
GenText AI Inc. *Toronto, ON*

- Developed code for an AI-powered Microsoft Word add-in utilizing **Generative Pre-trained Transformer** technology
- Remodeled the sign-in experience, leveraging **Azure AD B2C** to integrate **Google** and **Mircosoft** as identity providers
- Improved security by writing automated tests in **Cypress** and implementing token-based **OAuth authentication**
- Increased user activity by **100%** by integrating a plugin for fetching real-time data and adding support for 10 languages

Software Developer Sept – Dec 2022
Descartes Systems Group Inc. *Waterloo, ON*

- Developed full-stack applications in an **Agile** team using **MVC** software architecture and **.NET** Core framework
- Engaged in the full software life cycle, from **UI/UX** reviews to **Git** branch merges, to **cloud deployments**

Technical Writing Intern Jan - April 2022
Matrox Inc. *Dorval, QC*

- Documented and gained in-depth knowledge of **Computer Vision** software and hardware products created at Matrox

PROJECTS

NeuralFlix: Smart Movie Suggestions Sept 2024

- Used **PyTorch machine learning** to predict users' movie preferences based on others of the same age and gender
- Built a web scraper in **Golang** to collect viewer demographic data and store it in a **neural network** of **weighted vectors**
- Developed the client-side using **Flask** in Python, creating a responsive UI to wrap the Python script
- Applied PyTorch for **deep learning** and **reinforcement learning**, focusing on **optimization** to boost accuracy

Operating System May 2024

- Devised a memory allocator via binary tree **data structure** for the STM32 Nucleo board using **C** and **Assembly**
- Implemented an Earliest Deadline First **resource scheduling algorithm** to schedule single and multi-threaded tasks