

# Alexander Naylor

+1 (519) 404-9131 | alexandernaylor@outlook.com | linkedin.com/in/AlexNayl | github.com/AlexNayl | alexnayl.github.io/

## EDUCATION

---

### Western University

September 2024 - June 2025

*Master's, Software Engineering*

- Member of the Skylark satellite development team, focusing on ground station implementation

### Ontario Tech University

September 2018 - April 2023

*Bachelor's, Computer Science*

- Minored in Astronomy
- Specialized in Data Science with courses such as Data Mining, Database Systems and Concepts, Computer Vision, Big Data Analytics, Information Visualization, and Machine Learning.

## PROFESSIONAL EXPERIENCE

---

### Schneider's Computing

Listowel, ON, Canada

*Computer Repair Technician*

August 2023 - September 2024

- Operated the Listowel satellite store with a high degree of independence.
- Repaired desktop and laptop computers in store with quick turnarounds.
- Tracked specialized external repairs and acted as customer advocate.
- Assisted Internet Service Provider team in field calls and network maintenance.

### Ontario Tech Univeristy

Oshawa, ON, Canada

*Teaching Assistant*

January 2023 - April 2023

- Led 20 students through several lab activities involving Java, Glassfish backends and HTML, JavaScript frontends.
- Explored file access, multithreading, network communications, and working with build tools.
- Assisted in course grading.

## PROJECTS & OUTSIDE EXPERIENCE

---

### Satellite Development - Western University's Skylark Project

- Member of the Skylark satellite development team, focusing on ground station system selection and integration.

### Geo Photo Social Media App

<https://github.com/AlexNayl/GeoPhotoSocialMedia>

- A mobile app made using the flutter framework in collaboration with 3 others in a mobile development class
- It's a prototype social media site where users can post geolocated photos on a map.

### Web Hosted Boid Behaviour Model Demo

<https://github.com/AlexNayl/RustBoidDemo>

- Experiment deploying a Rust powered game engine called Bevy to the internet using Web Assembly.
- Demo mimics flocks of birds or schools of fish using simple movement rules.

## SKILLS

---

**General Software Development:** Data Structures & Algorithms, JavaScript, Git, HTML/CSS, Java, Kotlin, Linux/Unix, C/C++, Maven, REST APIs, Rust, SQL, Python, Agile

**Data Science and Analytics:** Machine Learning, Data Mining, Data Analysis, Computer Vision, Data Visualization, Pandas, Numpy, R, GGPlot, MATLAB, Keras, OpenCV

**Backend Systems:** Docker, Kubernetes, Google Cloud Platform, AWS, RESTfull Api Design

**Frontend Systems:** Web Development, Vue.js, React.js, jQuery

**Software Quality Assurance:** Quality Assurance (QA), Test Driven Development, Software Security