

# Alexander Naylor

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## 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.

## Certifications

Engineers Geoscientists Manitoba

Registered Engineering Intern

Reg No: 50060

## Professional Experience

### Schneider's Computing

Listowel, ON, Canada

Computer Repair Technician

August 2023 - September 2024

- Operated the Listowel satellite store, providing customer service with a high degree of independence.
- Repaired desktop and laptop computers in store with quick turnarounds, using attention to detail to minimize reoccurrences.
- Tracked specialized external repairs and acted as customer advocate, practicing problem-solving to maximize customer satisfaction.
- Assisted Internet Service Provider team in field calls and network maintenance.

### Ontario Tech University

Oshawa, ON, Canada

Teaching Assistant

January 2023 - April 2023

- Led 20 students through several lab activities involving Java, Glassfish backends and HTML, JavaScript frontends. Focusing on troubleshooting techniques and effective communication.
- Explored file access, multithreading, network communications, and working with build tools.

## 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