

# 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 system selection and 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.

## 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.

### Image Cartoonizer

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

- Experiment transforming an image into a cartoonized version using OpenCV to implement color flattening and canny edge detection.

### 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.

## 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.
- 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.

## SKILLS

**General Software Development:** Software Development Life Cycle, Data Structures & Algorithms, Git, Agile, information security, Quality Assurance (QA), JavaScript, Python, Rust, Java, Kotlin, Maven, C/C++, Version Control

**Frontend Systems:** jQuery, Web Development, HTML/CSS, Bootstrap, Flutter, React.js, Vue.js

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

**Backend Systems:** Linux/Unix, REST APIs, database, SQL, Docker, Kubernetes, Google Cloud Platform, cloud technologies, API, Microservices