# Youssef Ismail

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## 📚 Education:

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|---|---|
| University of Alberta | 2019-2024 |
| ↳ Computer Engineering Software Option, Bsc Co-op | GPA: 3.8 / 4.0 |

## ⌨️ Technical Skills:

**Programming:** C/C++ | Python | MATLAB | SQL | VHDL | HTML | ARM Assembly | CSS
**Digital Tools:** Excel | Illustrator | Photoshop | Powerpoint | Word | Git

## 💻 Project Experience:

### Edmonton Reads | Full Stack Web Application | @Edmreads.ca

↳ Summary:

A full stack web application that showcases the top 10 most popular books in Edmonton each week. Users can also sign up to track books they are reading or want to read.

↳ How I Built It:

- Designed modern front-end user interface using Bootstrap, Javascript, HTML, and CSS
- Integrated backend server with Django, AJAX, jQuery, PostgreSQL, and Python
- Retrieved JSON data from City of Edmonton and Google APIs
- Deployed website on Heroku server using Gunicorn, WhiteNoise, Git, and Heroku CLI

### YegEvents | iOS Application | @Youtube Overview

↳ Summary:

An iOS application proof of concept that shows nearby social events on an interactive map. Users can interact with the pins to get more information or get directions to the event.

↳ How I Built It:

- Developed application with Swift using UIKit, Mapkit, GeoCoder and MVC models to display data
- Used Object Oriented Programming to create event model that stored description and geolocation
- Performed API calls from City of Edmonton API to parse JSON data into Event model
- Provided support for multiple devices through Auto Layout constraints as well as Dark/Light mode

## 📃 Coursework:

### Edmonton Route Plotter:

C++ application that displays the shortest path between points on a map of Edmonton. Used interprocess communication to compute a path in a server using Dijkstra's Algorithm.

### Naive Bayes Classifier:

Python program that classifies text input using machine learning and round robin classification. Used Object Oriented Programming to develop and train classifier.

## 🏆 Scholarships & Diploma:

- Jason Lang Scholarship for Academic Excellence
- International Baccalaureate Diploma
- University of Alberta Undergraduate Scholarship
- Alexander Rutherford Scholarship