

Eli Vlahos

514-806-1645 | evlahos@uwaterloo.ca | <https://eli-vlahos.github.io/> | <https://github.com/eli-vlahos>

Skills

- **Front-end** technologies: **HTML**, **CSS**, **Bootstrap**, **Javascript (React and Vue)**
- **Back-end** technologies: **Python (Django and Webapp2)**, **C++**, **SQL (Postgre)**
- Python libraries: **Numpy**, **Pandas**, **Matplotlib**, **Seaborn**, **Plotly**, **Scikit-learn**
- Other: **LaTeX**, **MS Office**, **Excel**, **Windows**, **Git and Github**, **Mailgun API**
- **Bilingual (French)**: French work experience (Army Reserves); French Immersion; exchange to France

Technical Projects

Email Campaign Feature - Python, Vue.js

- Made **email blast web application** that allowed tournament organizers to send emails to contacts; contacts were imported through an administrative page or csv file and could be appropriately edited
- Emails were customized and sent to customers, their status was updated in real time using **Mailgun API** and **webhooks** for optimized reporting; developed all levels of the **stack** for the handling of contacts, groups, emails

Quadoodle – React (MLH Same Home Different Hacks 2020 Honorable Mention)

- Created a free **online multiplayer** touchpad drawing game with a team within a constrained time period
- Used **React** and **Bootstrap** to create a detailed UI for a rewarding user experience
- Made an **HTML Canvas** drawing board with live updates using **Firebase Firestore** to promote a dynamic and cooperative gaming system

RC4 Cryptography Implementation – C++

- Displayed a thorough understanding of logical operations in **C++ and base85 encoding** in order to recreate the **RC4** encryption scheme, gained a basic understanding in **cryptography, internet security and privacy**
- Implemented user input and output for encrypted messages using string and array manipulation

Database Projects (Machine Learning) – Python

- Demonstrated knowledge of **data science** and **Python** by using **pandas**, **numpy** and other **libraries** to organize and display critical data for company operations; corporate accounting information for tax purposes, technical indicators for security analysis and marketing data for advertising efficiency
- Cleaned and analyzed data using **pandas** by sorting values based on boolean equations, pandas functions and apply lambda tool.

Presented a research paper concerning the rate of changes of rockets breaking out of the atmosphere, used **Python (Matplotlib, Numpy)** to plot the data and **LaTeX** to present the paper

Employment Experience

Full Stack Developer at Waypoint Golf, 2020 – Python, Django, Vue.js, PostgreSQL, Webapp2

- Maintained and continued development of a **web app** for golf tournament organization **management** and **purchase** handling, with full responsibility over all levels of the **stack**
- Developed user friendly metrics reporting tools allowing administrative users to obtain feedbacks on tournament
- **Deployed** development and production server using **Google Cloud** and **FreeBSD OS**, handled **back-end** and **URI routes** with **Python** and **webapp2** to solve a variety of tasks including security, cleaning and presentation of database information and APIs

Member of the Canadian Armed Forces, Intelligence Operator, 2018-2019 – Excel

- **Presented** confidential information in **written and oral form to superiors**; **classified and sorted information** in **Excel** and **geographically** using **maps and software** to organize intelligence
- Completed physical and mental training while sleeping three hours/night in the field for a period of five days to improve **time management** and **discipline** in a **high stress environment**
- In combat situations completed coordinated team work; expected to be **reliable, hardworking and independent**

Extracurricular Projects

Theta Psi Chapter of Sigma Chi Fraternity Quaestor 2020-

- Responsible for the **organization** of chapter's finance; Worked with Pro Consul and Consul to ensure **balanced budget** and responsible **cash flow**; published **quarterly financial reports**

Vice-President of Philosophy Club and Chess Club; member of Elections Committee 2017-2019 (CEGEP Vanier)

- Organized **religious roundtable** with a representative from each Abrahamic religion; **40 attendees**
- Coordinated **student elections** for a voting body of **6000 students**

Education

Candidate for Bachelor of Applied Science – Honors Computer Engineering (Co-op)

University of Waterloo

Sept 2019 – May 2020