

Eli Vlahos

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Skills

- Programming Languages: **C++**, **SQL**, **PHP**, **Javascript** and **Python** (**Numpy**, **Pandas**, **Matplotlib**, **Seaborn**, **Plotly**, **Scikit-learn**)
- Other: **HTML**, **CSS**, **LaTeX**, **MS Office**, **Excel**, **Bootstrap**, **MacOS**, **iOS**, **Windows**, **financially literate**
- **Bilingual (French)**: French work experience (Army Reserves); French Immersion; exchange to France

Technical Projects

Adjusted Cost Base Project – C++

- Demonstrated a foundational understanding of **linked lists and classes** by organizing stock transaction data and then calculating capital gains/losses and adjusted cost base for a private equity account's fiscal year end

RC4 Cryptography Implementation – C++

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

Database Projects – 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 data in order to create and understand machine learning models: **Linear regression** for housing and security predictions, **logistic regression** for platform usage and **K nearest neighbor** to predict a target class

Stock Portfolio – Fundamental Indicators:

- Learned **fundamental analysis** by investing in a diversified portfolio of ETFs, bonds (corporate and government) and individual stocks in blue chip companies based on P/E, current ratio, and other financial indicators

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

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

- **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**

Communications Chair, Young Liberals of Canada in British Columbia 2016-2017

- Responsible for Facebook, Twitter, Instagram and blast emails; Coordinated inner executive communication via email, Skype or Facebook

Extracurricular Projects

Theta Psi Chapter of Sigma Chi Fraternity Annotator 2019-

- Responsible for the **organization** of chapter information, communication and records; Worked with Pro Consul and Consul to guide **chapter operation**; responsible for publishing **weekly minutes**

Vice-President of Philosophy Club and Chess Club; member of Elections Committee 2017-2019

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

President of North Okanagan-Shuswap Young Liberals 2015-2017

- **Mobilized** over **25** team members for **door knocking, guest speaker and fundraisers**
- Organized a **fundraiser** for Fort McMurray fires (**\$500**) and Vernon's homeless (**\$1100**)

Education

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

University of Waterloo

Sept 2019 – May 2024