

# Chrisovalantis Vatos

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## EDUCATION

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McGill University | *Bachelor of Software Engineering Co-op*

09/2021 - 09/2025

- **Courses:** Model-Based Programming, Discrete Structures, Communication in Engineering
- **Cumulative GPA:** 4.0/4.0

Dawson College | *DEC Health Science*

08/2019 - 07/2021

- Graduated with Honours Distinction

## SKILLS

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**Languages/Frameworks:** Python, Java, C, HTML, CSS, Bootstrap

**Software Tools:** Visual Studio, Eclipse, Excel, Word, Powerpoint

**Soft Skills:** Communicative, Resourceful, Intuitive, Curious, Detail-Oriented

**Spoken Languages:** English & French (Native Proficiency)

## ENGINEERING RELATED EXPERIENCE

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**Sophisticated Study of Lift and Drag Forces** | *Dawson College*

Montréal, Québec | 2021

- Simulated the trajectory of a frisbee under the effects of lift and drag using the **Matplotlib library**
- Coded a **bisection method algorithm** and implemented **Euler's loop** to determine the initial launch angle based on a desired range
- Results obtained were accurate to within **two decimal places** when compared to those obtained with the SciPy algorithm library
- Gained practical experience with **optimization problems** and with the **SciPy open-source Python library**

**Analysis of News Headlines using Machine Learning** | *Personal Project*

Montréal, Québec | 2021

- Examined the relationship between the **polarity** and **subjectivity** of Reuters' headlines
- Manipulated the data using **Pandas** to accommodate the subsequent algorithm that was applied
- Implemented the **VADER sentiment library** followed by **Scikit Learn's k-means clustering** in order to allocate each headline to a specific group
- Results obtained indicate a **strong correlation** between the two metrics
- Gained practical experience in natural language processing (**NLP**), **unsupervised machine learning**, and **k-means clustering**

**Portfolio Website** | *Personal Project*

Montréal, Québec | 2022

- Built a fully functional website using HTML, CSS and Bootstrap to showcase my completed projects and other relevant experience

## OTHER EXPERIENCES

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**Sales Representative** | *Jaggers Boutique*

Montréal, Québec | 09/2021 - Present

- Analyzed **consumer buying patterns** and **advised** management about merchandise acquisition
- Cared for floor layout and assured a visually appealing environment to **maximize** customer satisfaction