

# Zaki Yahia

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## Education

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### Polytechnique Montréal

Expected 2027

*Bachelor of Science by Accumulation in Cybersecurity*

### Université du Québec à Montréal

August 2024

*Bachelor of Science in Computer Science and Software Engineering*

## Work Experience

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### E-Commerce Advisor, FCCQ – Montréal, QC

March 2024 – Present

- Guided over 200 SMEs through the process of acquiring federal grants by identifying their specific needs and providing tailored support throughout the application process.
- Secured over \$130,000 in grant funding for businesses by managing documentation, maintaining compliance, and aligning with grant requirements.
- Recognized as one of the top 5 most prolific advisors among over 100 employees in a similar role.

## Projects

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### Daily Stock Market Forecaster | Python, Scikit, Tensorflow

[zicocharts.pythonanywhere.com](https://zicocharts.pythonanywhere.com)

- Developed a stock market prediction model using Convolutional Neural Networks (CNN) to analyze extensive historical stock data and generate daily forecasts.
- Implemented image recognition techniques and KMeans clustering to detect intricate patterns within stock charts, facilitating deeper analysis of market behavior.

### Smart Thermostat Controller | Arduino, C++

[github.com/zaki-ay/smart-heater](https://github.com/zaki-ay/smart-heater)

- Engineered an automated thermostat control system using multiple NodeMCU units to optimize temperature regulation in my apartment by integrating a temperature and infrared sensor with a servo mechanism for precise control of an old-school thermostat, enhancing energy efficiency.
- Set up a central NodeMCU server to manage HTTP requests from client units, enabling seamless control and an auto-turn feature to maintain the desired temperature range.

### UQAM Scheduler Tool | Python, Flask, JavaScript

[zicozico.pythonanywhere.com](https://zicozico.pythonanywhere.com)

- Created a robust course scheduling tool that enabled users to input classes and receive optimal schedules in real-time; the application has been adopted by over 40 students, simplifying scheduling.
- Developed and executed web scrapers to streamline the automation of class schedule updates.
- Designed an intuitive and responsive web interface that enhances user interaction and accessibility.

## Skills

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**Programming Languages :** Python, Java, C++, C#, JavaScript, SQL, PHP, HTML, CSS

**Developer Tools :** Linux, Bash, Git, Docker, JUnit, Arduino

**Frameworks et Libraries :** Flask, Django, NumPy, Pandas, TensorFlow, Scikit, Bootstrap