Zaki Yahia

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Education

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

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

Daily Stock Market Forecaster | Python, Scikit, Tensorflow — 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

- 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

- 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

Programming Languages : Python, Java, C++, C#, JavaScript, SQL, HTML, CSS
Developer Tools : Unix, Bash, Git, Jupyter Notebooks, UML
Languages : Fluent in French and English