

Mahmoud Yousif

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Summary

An ambitious and innovative Computer Science student at the University of Wilfrid Laurier, minoring in Financial Math and seeking co-op opportunities in the technology sector. With a strong foundation in Python, Java, HTML/CSS, and a keen interest in software development and web design, I am dedicated to advancing my technical skills. Recognized for analytical skills and a deep enthusiasm for both technology and finance.

Skills/ Languages

- **Programming Languages:** Python, Java/JavaScript, HTML/CSS, C/C++ , SQL, R, Scala, Typescript, PowerBI
- **Skills:** Data Structures, Machine Learning Basics, Agile Methodologies, Software Life Cycle Management, Responsive Web Design, User Interface Design, Version Control (e.g., Git), Cyber Risk Management, Cybersecurity, Computer Forensics, Linux.
- **Libraries:** NodeJS, Express, Flask, Scikit-learn, Pandas, NumPy, Matplotlib, Scrapy, OpenGL, Pygame, cloud infrastructure

Career Experience

IT Project Coordinator Intern | CIBC | Sept 2024 - December 2024

- Supporting Project Managers through all project management lifecycle phases, Developing, managing, and controlling project schedules with continuous updates and mitigation decisions.
- Tracked progress of small-scale projects and recommended response plans for risks and resolution plans.
- Assisted in financial tracking and reconciliation, ensuring the resolution of anomalies and updating ongoing estimates.

Web Developer & Tech Analyst | Delton Glebe Counselling Centre | June 2024 - August 2024

- Developed and maintained the center's website using **WordPress**, incorporating custom plugins and themes to improve user experience and streamline appointment booking, reducing administrative workload by **20%**.
- Implemented a data management system using **SQL** and **Python**, enabling efficient handling of client records and appointment schedules, which enhanced data accuracy and reduced administrative errors by **25%**.

Web Developer & IT Consultant | Gerais Cargo Inc. | March 2022 - May 2024

- Engineered and launched a dynamic, responsive website that improved customer engagement by **50%** through optimized UI/UX.
- Led the full development lifecycle, from concept to deployment, employing HTML, CSS, JavaScript, and Python to ensure seamless functionality and cross-browser compatibility.

Discord Bot Developer | Freelance | May 2023 - June 2024

- Engineered a sophisticated Discord bot using Python, enabling advanced PDF manipulations such as merging, compressing, and formatting documents, which significantly streamlined document handling processes for various business clients.
- Designed and deployed a custom Discord bot that automates PDF management, impacting over **1,000** users by reducing document handling time by **40%**.

Projects

Lead Developer | Stock Market Data Analysis Tool | 2023 - 2024

- Led the development of a robust Stock Market Data Analysis Tool, leveraging Python to architect a system capable of real-time data fetching, processing, and analysis.
- Integrated various public financial APIs to ensure live data retrieval, utilized advanced algorithms for precise data analytics, and crafted dynamic visualizations using JavaScript to illustrate trends and performance metrics, enhancing investment decision-making processes.

Lead Developer | Credit Card Fraud Detection System | Freelance | Waterloo, ON | Feb 2024

- Developed a backend system using Python, pandas, sci-kit-learn, and Flask for data preprocessing, feature scaling, and model evaluation, employing Random Forest to detect fraudulent transactions.
- Performed extensive backtesting and optimization to validate and enhance the algorithm's performance, achieving a Sharpe ratio of 3.5 and demonstrating strong risk-adjusted returns.

School Achievements & Hackathons

President of Finance | Sudanese Association Club | Sept 2023 - June 2024

- Orchestrated the development of an asset management system using SQL for database management and Python for data analysis, significantly boosting the club's operational efficiency by automating asset tracking and financial reporting.
- Leveraged technical expertise to design and implement robust software solutions that enhanced resource management, and automated financial reporting, improving budget tracking accuracy by **30%**.

Participant, Amazon Robotics Hackathon | University of Wilfrid Laurier | Waterloo, ON | Feb 2024

- Utilized Python and Java to contribute to the design and implementation of a project aimed at solving real-world logistics problems through robotics.
- Applied critical problem-solving skills and innovative thinking, contributing significantly to the development of a prototype that addressed real-world challenges effectively.

Education

Bachelor of Computer Sciences | Honors Co-op | University of Wilfrid Laurier | Waterloo, ON | 2022-2026