Michael Khoury *Computer Engineering Student*

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EDUCATION

Bachelor of Engineering (Co-op) - Computer Engineering, Class of 2027 St. John's, Canada
Memorial University of Newfoundland
Third Year, Academic Term 5, GPA: 3.85 / 4.0

RELEVANT COURSES

Algorithms, Data Structures, Digital Logic, Foundation of C++, Introduction to Python, Microprocessors, Software Design

RELEVANT EXPERIENCE

Supplemental Instruction (SI) Leader - ECE (Co-op) Sep 2024 – Dec 2024 | St. John's, Canada
Faculty of Engineering and Applied Science, Memorial University of Newfoundland
- Led weekly SI sessions for 6 engineering courses, simplifying complex concepts in C++, Python, digital logic, circuits, and semiconductor physics for 40+ ECE students, improving performance by 25% using strong communication, problem-solving, and time management skills.
- Automated administrative tasks by developing a Python-based attendance tracker with Excel integration, demonstrating strong attention to detail by leveraging pandas and openpyxl to increase efficiency of administrative processes while ensuring 100% data accuracy.

Machine Learning Software Developer Jun 2024 – Aug 2024 | St. John's, Canada (Hybrid)
VAC Lab, Department of Computer Science, Memorial University of Newfoundland
- Integrated machine learning algorithms in Python for disease recognition in medical imaging data, using PyTorch for deep learning models and Pydantic for data validation, along with MLflow for experiment tracking, while using GitHub and Confluence for team collaboration.
- Conducted machine learning experiments using shell scripting via PuTTY and Bash, uploading GitHub repositories to a research workstation with WinSCP, and managing results on the department's MLflow server in collaboration with Dr. Matthew Hamilton.
- Developed a Python script to enhance machine learning algorithms by implementing Data Version Control (DVC) for tracking experiments, and modified YAML configuration files as needed to streamline workflows and ensure reproducibility.

AI Automation Developer / Project Coordinator (Co-op) Jan 2024 – Apr 2024 | St. John's, Canada (Remote)
NL Eats Community Outreach Inc.
- Led 5+ workflow automation projects through AI integration using Zapier, resulting in improved efficiency and resource management.
- Utilized the OpenAI API to efficiently integrate AI into various work applications, improving workflow automation and system compatibility
- Effectively managed multiple automation projects utilizing Notion, achieving 100% on-time delivery and attainment of project goals.

Engineering Co-op Student (Data Analysis) May 2023 – Aug 2023 | Long Harbour, Canada
Vale Canada Ltd.
- Created, modified, and maintained preventative maintenance plans for machinery in the electrowinning department by sending out engineering requests using SAP ECC software, increasing equipment uptime by 15%, with regular updates presented to the team.
- Organized critical machine data using Excel and PowerPoint, ensuring 100% record accuracy and supporting data-driven decisions.
- Researched and compiled part prices to generate cost estimates for malfunctioning machines and provided strategic insights on machine replacements by assessing cost-effectiveness, leading to a 15% reduction in unnecessary expenditures.

SKILLS

Python | C/C++ | C# | .NET Development | VHDL | HTML | CSS | JavaScript | MATLAB | SQL | YAML | Assembly | Dafny | NumPy | Matplotlib | Pandas | openpyxl | JSON | PyTorch | Pydantic | OpenAI API | MLFlow | Shell Scripting (sh) / SSH | Conda | PuTTy | Bash | WinSCP | Github | Zapier | DSA | OOP | Embedded Systems | Oscilloscope | Soldering | Pspice | Simulink | Jira/Bitbucket | MS Office | Notion | SAP

AWARDS

The IUGS Entrance Scholarship for Undergraduate Students 2022
Memorial University of Newfoundland

Class of 2021 High School Valedictorian 2021
The English Modern School, Doha

PROJECTS

Car UI and Proximity Sensor Sep 2022 – Dec 2022
- Used Python and Arduino for designing a UI mimicking modern car features with an advanced built-in promiximity sensor system.