

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

Fourth Year, Academic Term 6, GPA: Cumulative 3.88 / 4.00 | Current 4.00 / 4.00

Relevant Courses: Algorithms, Data Structures, Digital Logic, Foundations of C++, Introduction to Python, Microprocessors, Software Design

🧠 SKILLS

Languages & Scripting: Python, C/C++, C#, VHDL, JavaScript, HTML, CSS, SQL, YAML, UML, JSON, XML, Bash, Dafny, Assembly, MATLAB

Frameworks & Libraries: React.js, Node.js, Express.js, .NET, Unity, PyTorch, NumPy, Pandas, Matplotlib, MLFlow, openpyxl, JSX, OpenCV

Tools: Git/GitHub, Jira/Bitbucket, Notion, Confluence, VS Code, CoLab, Simulink, SAP, MongoDB, Conda, Zapier, Shell/SSH, WinSCP, PuTTY

Systems & Concepts: REST API, Embedded & Real-time Systems, Signal/Image Processing, Linux, SDR, GNU Radio, Pspice, OOP, DSA

📁 RELEVANT EXPERIENCE

Computer Engineering Intern (Co-op), C-CORE

May 2025 – Aug 2025 | St. John's, Canada

- Designed and trained ML models using Python and PyTorch for radar-based target detection, achieving over 85% detection accuracy.
- Developed signal processing algorithms and SDR workflows (Python, C++, VHDL, and GNU Radio), improving detection reliability by 12%.
- Optimized embedded systems to boost range by 20% and enhance SNR via system-level tuning and custom VHDL/embedded C++ modules.

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 C++, Python, digital logic, circuits, and semiconductor physics for 40+ ECE students, boosting performance by 25% through clear communication and problem-solving.
- Automated administrative tasks by building a Python-based attendance tracker with Excel integration using pandas and openpyxl, increasing efficiency and ensuring 100% data accuracy.

Machine Learning Software Developer, Visual and Analytic Computing Lab

Jun 2024 – Aug 2024 | St. John's, Canada (Hybrid)

- Trained ML algorithms in Python for disease recognition in medical images using PyTorch and MLflow; executed models via Bash scripting through PuTTY, with GitHub repositories managed via WinSCP and results tracked on MLflow, achieving a 15% performance improvement.
- Developed a Python script to automate experiment tracking using Data Version Control and YAML configuration editing, improving workflow reproducibility and version control consistency by 30%.

AI Automation Developer (Co-op), NL Eats Community Outreach Inc.

Jan 2024 – Apr 2024 | St. John's, Canada (Remote)

- 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

Engineering Co-op Student (Data Analysis), Vale Canada Ltd.

May 2023 – Aug 2023 | Long Harbour, Canada

- Created preventative maintenance plans using SAP ECC, boosting equipment uptime by 15% and reporting regularly to the engineering team.
- Analyzed machine data and part costs in Excel/PowerPoint to ensure 100% accuracy and reduce unnecessary spending by 15%.

📁 RELEVANT PROJECTS

Full-Stack Portfolio Website, Personal Project

May 2025 – Jun 2025

- Built a fully responsive portfolio site using React.js (with JSX), React Router, and custom CSS with scroll-aware navigation, fade-in animations, mobile-optimized layout, and modular UI components.
- Developed and deployed a Node.js/Express.js REST API to handle secure contact form submissions via Nodemailer, with optional MongoDB/Mongoose integration; frontend deployed via GitHub Pages and backend via Render.

Unity Tower Defense Game (ZSM Defense), Software Design Course

Jan 2025 – Apr 2025

- Built a polished 2D tower defense game in Unity with C#, featuring an endless wave system, unique enemy behaviors, and tower abilities like splash damage, burn effects, and curses. Recognized as one of the top 2 projects in the course for gameplay, architecture, and user experience.

Car UI and Proximity Sensor, Introduction to Programming Course

Sep 2022 – Dec 2022

- Used Python and Arduino for designing a UI mimicking modern car features with an advanced built-in proximity sensor system.

🏆 AWARDS

The IUGS Entrance Scholarship, Memorial University of Newfoundland

2022

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

2021