Marc-Antoine Nadeau

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Education

McGill University *Montreal, QC*
Bachelor of Engineering in ***Software Engineering*** *Co-op* *Sept. 2022 – Apr. 2026*
- **GPA: 3.86/4.00** | Dean's Honour List | Faculty of Engineering Scholarship | Alma Mater Scholarship
- <u>Relevant Coursework:</u> Engineering Economy, Current Economic Problems, Machine Learning, Reinforcement Learning, Computer Vision, Probability & Statistics, Numerical Methods, Algorithms & Data Structures, Algorithm Design

Work Experience

CDPQ - Caisse de dépôt et placement du Québec (AUM: C$473B+) *Montreal, QC*
Incoming AI & Analytics Intern - Advanced Analytics *Sept. 2025 – Dec. 2025*
- Incoming Fall intern developing LLM-powered tools to transform unstructured data for the private equity business.

Morgan Stanley *Montreal, QC*
Summer Analyst - Electronic trading *May 2025 – Aug. 2025*
- Built a real-time trade flow tracing system for listed assets including equities, derivatives, bonds, and options using Java and Apache Kafka.
- Enhancing system efficiency and transparency by resolving trade pipeline bottlenecks and implementing real-time transaction monitoring for faster issue detection and improved auditability.

Hydro-Québec *Montreal, QC*
Software Engineering Intern - Power System Automation *May 2024 – Aug. 2024*
- Developed a real-time tool for data acquisition and remote configuration of Intelligent Electronic Devices in substations.
- Engineered an electrical grid visualization tool using the .NET framework, enabling users to perform modifications and updates independently, reducing maintenance time by 50% and minimizing errors.
- Developed a cross-database verification tool with DBLink, identifying mismatched data and improving data quality and integrity by 25%+.
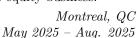
Cybersecurity Intern - Threat Monitoring *May 2023 – Aug. 2023*
- Built custom regex log parsers to enhance security monitoring systems, processing over 15,000 logs daily and improving incident detection and coverage.
- Integrated over 100 devices into security monitoring systems, meticulously documenting subscriptions and ensuring comprehensive logging coverage aligned with cybersecurity threat standards.

Leadership & Extracurriculars

McGill Engineering Students in Finance, Member *Jan. 2024 - Present*
McGill Investment Club, Member *Sept. 2023 - Present*
McGill Formula Electric, Software Developer *Sept. 2022 - Aug. 2023*

Projects

Deep Q-Network for Algorithmic Trading *GitHub Repository* ↗
- Developed Deep Q-Network and Actor-Critic for algorithmic trading, outperforming average market returns.

Emotion Prediction Using Large Language Models (LLMs) *GitHub Repository* ↗
- Fine-tuned the GPT2, Distilled-GPT2, and BERT models for emotion classification using the GoEmotions dataset.

Organ Classification Using MLP, CNN, and MobileNetV2 *GitHub Repository* ↗
- Developed Multilayer Perceptron (MLP), Convolutional Neural Network (CNN), and MobileNetV2 for Organ classification.

Skills, Languages & Certifications

Technologies: Bloomberg Terminal, Excel, PowerPoint, Git, Gradle, Docker, Postman, Swagger, IBM QRadar & PostgreSQL
Programming Languages: Python, Java, C/C++, OCaml, SQL, MATLAB, Bash, Visual Basic, ARM Assembly & VHDL
Frameworks/Libraries: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Spring Boot, .NET, JUnit & Kafka
Spoken Languages: English (Fluent) & French (Fluent)
Certifications: Bloomberg Market Concepts ↗ & Environmental Social Governance ↗