

Sebastien Terrade

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EDUCATION

Queen's University	Kingston, ON
B.S. Computer Engineering – GPA: 4.15/4.3 (97%) – Dean's Scholar	Expected Graduation: April 2026
<ul style="list-style-type: none">• 1st Place - AI Collective KingHacks Hackathon• 3rd Place - Next Generation of Medical Simulation Hackathon - \$1500 Reward• Courses: Algorithms, ML & DL, Computer Vision with Deep Learning, Cryptography & Network Security	
Nanyang Technological University (Exchange Program)	Singapore

January 2024 – May 2024

TECHNICAL SKILLS

Languages: C/C++, Python, Java, SQL, Assembly, React/TypeScript, PowerFX

Tools and Frameworks: PostgreSQL, Git, CI/CD, Linux, REST APIs

AI/ML: PyTorch, RAG, GraphRAG, LLM Evaluation, Prompt Engineering, Feature Engineering

EMPLOYMENT AND RELATED EXPERIENCE

Ontario Power Generation	Kingston, ON
<i>Software Engineering Intern</i>	May 2024 – August 2025
<ul style="list-style-type: none">• Built and maintained the Python and SQL backend for Nexus, an internal application that combines data from 10+ databases for system engineers, reducing manual cross-system lookups by 10+ hours per week.• Wrote and optimized SQL queries to join, filter, and reconcile work orders, equipment status, training records, and system health data across multiple legacy databases.• Built multiple internal applications to track equipment KPIs, performance targets, and historical trends for engineering reliability reviews.• Skills: Python · Backend Development · MS App Tools · Control Systems · SQL · Project Planning · Collaboration	
Queen's VEX U Robotics Team	Kingston, ON
<i>Software and Electronics Project Lead</i>	September 2022 – September 2024
<ul style="list-style-type: none">• Led a team of 5 in designing and implementing an Odometry PCB, improving robot navigation accuracy.• Designed and implemented robot motion algorithms, improved camera processing, and developed a Jetson Nano PCB for enhanced visual recognition, contributing to a quarter-final finish at the VEX U Robotics Worlds.• Skills: Project Management · Rust · KiCad · Motion Algorithms · Computer Vision · Teamwork · Robotics	
Ingenuity Labs Research Institute	Kingston, ON
<i>AI Research Associate</i>	September 2023 – December 2023
<ul style="list-style-type: none">• Developed neural networks using real-life road accident data to identify patterns and improve road safety.• Classified cyclist-related incidents with Python, uncovering key accident causes and providing insights for safety enhancements.• Skills: Python · Excel · Machine Learning · Data Analysis · Research Collaboration · Road Safety	

PROJECTS

OmniCast - Interactive AI Podcast Platform	Kingston, ON
<i>1st Place, KingHacks Hackathon, \$500 Prize</i>	January 2026
<ul style="list-style-type: none">• Built an interactive conversational knowledge platform that turns a query and supporting documents into live, interruptable podcast-style conversations with multi-host AI personas.• Implemented RAG, conversation threading, and context persistence using Backboard.io, with ElevenLabs APIs powering low-latency text-to-speech output.	
GraphRAG for Clinical Guidelines	Kingston, ON
<i>CAPSTONE - AI Startup ALIRA</i>	Sept 2025 – Present
<ul style="list-style-type: none">• Building a GraphRAG API for clinical guidelines, transforming large medical documents into a scalable knowledge graph for more accurate and cited context retrieval.• Implementing a production-ready AI backend using Python, FastAPI, Neo4j, and AWS, with secure REST APIs, CI/CD pipelines, and evaluation against vector RAG using LLM-based metrics for an AI startup Alira.	