ALEXIE LINARDATOS

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EDUCATION

Master of Computer Science, Ontario Tech University — Expected 2026
Relevant Coursework: Advanced Natural Language Processing and Advanced Topics in Mathematical Modeling.

Bachelor of Computer Science, Ontario Tech University — 2019 - 2024
Minor in Mathematics

SKILLS

Technical Skills	C++, CUDA, OpenCL, Shell Scripting, GPU Acceleration, HPC Applications, Torch
Soft Skills	Critical Thinking, Clear Communication, Leadership, Time Management, Teamwork
Awards	Lenovo Scholarship(2025), Rowing Leadership (2023, 2024), Athlete Mentor of the Year (2024)

EXPERIENCE

ViaLab Coordinator — April 2022 - May 2023
Ontario Tech University — *Oshawa, ON*

- Oversaw monthly expense reporting for HCI research initiatives, reducing costs by 10% through precise budgeting, timely reimbursements, and effective use of Excel and financial tracking tools.
- Supported interdisciplinary teams by coordinating lab resources and providing hands-on assistance in HCI projects, enabling on-time completion of key research milestones through effective communication, time management, and attention to detail.

Data Scientist — Jan 2021 - Jan 2022
Ontario Power Generation — *Darlington, ON*

- Pioneered the use of a Boston Dynamics robot within a nuclear power plant—serving as its first on-site operator—and introduced innovative methods to handle high-risk, radiation-intensive tasks, significantly enhancing worker safety and streamlining inspection workflows.
- Optimized data pipelines with automated retrieval and real-time processing, leveraging GPU acceleration (CUDA/TensorFlow) for analysis tasks, reducing latency and improving system reliability.

PROJECTS

ESREAL: Mitigating Hallucinations in Vision–Language Models. Master's thesis research developing a GPU-accelerated framework (InstructBLIP, Stable Diffusion, GroundingDINO) to detect and reduce hallucinations in VLM outputs. Designed diagnostic pipelines for object, attribute, and relationship verification using PyTorch, CUDA, and Linux-based HPC systems, with large-scale experiments on multilingual datasets to benchmark model reliability.

HandwritingDetection-ML. A deep learning solution developed in Python and TensorFlow to convert handwritten notes into digital format for student note-takers. Achieved over 90% recognition accuracy, reducing manual transcription time through a streamlined front end for immediate model inference.

LEADERSHIP

- Varsity Athlete on the Ontario Tech Rowing Team for four years, competing at national-level regattas and serving as **President of the School's Athletics Committee on the Ridgebacks Leadership Council**, advocating for student-athletes and fostering leadership, discipline, and perseverance.
- **Award-Winning Student-Athlete Mentor** at Ontario Tech, recognized as *Mentor of the Year* for providing guidance and support to varsity athletes balancing academics and athletics, while fostering leadership and personal development.