

Mazin Mukhtar

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Education

University of Toronto, BAsc in Electrical Engineering Sept 2024 - May 2029

- Minor in AI Engineering
- GPA: **3.88/4.0**; Average: **90%**
- Relevant Course: Computer Organization (**Assembly, C**), Digital Systems (**Verilog**), Linear Algebra (**MATLAB**), Programming (**C/C++**), Signals and Systems, Software Design and Communication (**C++**, **Git**), Single-/Multi-variable Calculus

Experience

Undergraduate Research Intern, CleverHans Lab — Vector Institute May 2026 - Present

- Working on **trustworthy ML** under the supervision of Prof. Nicolas Papernot.

Projects

Shega Oct 2025 - Present

- Built a **TypeScript ingestion pipeline**, connecting web scrapers to a Supabase backend for scalable apartment listing data storage.
- Implemented an **AI router interfacing Grok with custom TypeScript tools** for apartment searching and query handling.
- Developed a **React** front-end for a production-level web application.

Extracurricular

Infrastructure Developer, UTMIST Oct 2024 - Apr 2025

- Contributed to ML infrastructure with a focus on integrating **PyTorch** into software services lacking native PyTorch support.
- Explored AST-based methods for semantic code clone detection.

High School Tutor, TDSB Sept 2023 - May 2024

- Tutored high school students in physics and mathematics through both one-on-one and group sessions.
- Guided students in developing personalized study strategies for tests and assignments.

Awards

NSERC Undergraduate Student Research Award May 2026 - Aug 2026

Dean's List - All Semesters Sept 2024 - Apr 2026

Top 30 First-Year ECE Student Sept 2024 - Apr 2025

Technical Skills

- **Programming Languages:** Assembly, C, C++, MATLAB, Python, TypeScript, Verilog
- **Programming Frameworks & Libraries:** PyTorch, PyTorch Geometric, React
- **CAD:** ModelSim, Quartus Prime