

Antoine Tabet

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EDUCATION

University of Toronto

B.A.Sc. Electrical & Computer Engineering, Minor in Business and AI

Toronto, ON

Aug. 2024 – May 2029

- GPA: **3.83/4.0** | Fall 2025: **3.94/4.0** | Dean's List **2024–2025**, Fall **2025**.
- Relevant Courses: **Machine Learning, Data Structures & Algorithms, Software Engineering, Digital Systems, OOP.**

WORK EXPERIENCE

Software Engineering Intern

Aspire Software

May 2025 – Aug. 2025

Lebanon

- Shipped **5** production full-stack applications using **Next.js** and **Supabase**, delivering **10+** features.
- Designed normalized **PostgreSQL** schemas and **RESTful APIs** for **1,000+** daily requests.
- Profiled and optimized **15+** backend queries, reducing average response latency by **35%**.
- Hardened security with **Row-Level Security (RLS)** and **JWT** auth middleware; achieved **95%** unit test coverage.

Founder & Full-Stack Developer

WorldEd – AI-Powered Adaptive Learning Platform

Aug. 2025 – Present

Toronto, ON

- Architected full-stack **STEM** platform with **Next.js 15**, **TypeScript**, **PostgreSQL**, and **Drizzle ORM**.
- Built **RAG** pipeline powering **Eddi**, a Socratic AI tutor using **Google Gemini** function calling and **pgvector**.
- Engineered real-time progress tracking, gamified streak logic, **LaTeX** rendering, and **JSONB**-backed quiz system.
- Secured platform with **RBAC**, **rate limiting**, and **CORS**; cut query latency **40%** via **composite index** optimization.

PROJECTS

WealthEasy – AI Life Event Detection Engine | Next.js 14, TypeScript, Node.js, Supabase, Claude API

Feb. 2026

- Built **AI system** that monitors transactions, detects life events, and generates financial briefs via **Claude API**.
- Engineered **12-route REST API**, transaction signal monitor, advisor review portal, and **compliance audit log**.
- Implemented **Supabase RLS** and **human-in-the-loop** checkpoints ensuring Canadian securities compliance.
- Delivered full end-to-end system in **3 days** as a team of 2; scaled advisor output **10×** over manual review.

N3XU\$ Identity Protocol | Next.js 15, FastAPI, Gemini 2.0 Flash, Drizzle ORM, Supabase

Dec. 2025

- Built **AI-native** academic telemetry dashboard with **Next.js 15** frontend and **FastAPI** backend.
- Integrated **Gemini 2.0 Flash** for a **multi-modal** PDF-to-JSON “Neural Audit” engine for data extraction.
- Architected **Supabase SSR** identity vault with **Drizzle ORM** and **Recharts** real-time performance dashboard.

Click-A-Mole Game Engine | C++, Systems Programming, OOP

Sept. 2025 – Present

- Built **C++** engine using **Finite-State Machines** across **4** states with custom **memory management** at **60 FPS**.
- Applied **OOP** patterns (inheritance, polymorphism) reducing dev time **20%**; wrote **25+** pages of architecture docs.
- Implemented event-driven input handling and collision detection with deterministic frame-step simulation.

LEADERSHIP & EXTRACURRICULARS

Les Scouts du Liban | Leadership, Youth Mentorship, Community Service

Sept. 2016 – Aug. 2024

- Elected troop leader for **9 scouts**; led meetings, organized events, and trained youth on outdoor technical skills.
- Logged **80+** hours of community service through food drives, beach clean-ups, and youth education programs.

Harvard Model United Nations | Leadership, Cross-functional Collaboration

Jan. 2023

- Earned **Diplomatic Commendation** representing Denmark among **300+** international delegates.
- Led cross-cultural team to co-author and pass **3** resolutions through structured negotiation and written advocacy.
- Delivered position papers and floor speeches under time pressure, strengthening technical communication skills.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, TypeScript, SQL (PostgreSQL), Verilog, HTML/CSS

Frameworks & Libraries: React, Next.js 15, FastAPI, Node.js, Express.js, Tailwind CSS, Drizzle ORM

Infrastructure & Tools: Supabase, Git, GitHub, Linux, Figma, Cursor, VS Code, Recharts, KaTeX

AI/ML: Anthropic Claude API, Google Gemini API, RAG Pipelines, pgvector, Function Calling, Prompt Engineering

Concepts: REST APIs, System Design, RBAC, RLS, Database Optimization, Agile, Data Structures & Algorithms