

Abdullokh Tulkinov

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Education

University of Western Ontario

BSc — Honours Specialization in Computer Science & Major in Philosophy

GPA: **3.3/4.0** Dean's List

London, ON

Sep 2023 – Apr 2028

Experience

Lamina Solutions

Product Analyst Intern

Toronto, ON

Jun 2025 – Aug 2025

- Increased software workflow efficiency by **30%** through user flow redesign and reduction of usability friction points.
- Tracked and documented **10+** bugs using Microsoft Excel for engineering handoff.
- Conducted competitor analysis, translating findings into prototypes to validate improvements

Stonegate CHC

Camp Counselor & Promotions Assistant

Toronto, ON

Jun 2024 – Aug 2024

- Supervised **25+** children and designed digital promotional materials using Canva.

Cosimo's No Frills

Grocery Clerk

Toronto, ON

2020 – 2024

- Supported retail operations including stocking, inventory management, and customer service.

Etobicoke Humane Society

Volunteer

Toronto, ON

Jul 2022 – Dec 2022

- Maintained records for **20+** animals using Microsoft 365 and assisted adoption events.

Projects

Crypto Long-Term Viability Analysis - [Read more](#)

Independent Research

- Assessed regulatory and compliance risk exposure of privacy-focused crypto, tying Monero's untraceable transactions to 70+ exchange delistings over KYC/AML gaps
- Studied Bitcoin's fixed 21M coin supply and compared it to the gold standard, examining long-term risks like hoarding and reduced miner incentives after 2140.
- Compared Proof-of-Work and Proof-of-Stake systems, evaluating security, decentralization, and fairness trade-offs.

Personal Home Server - [Read more](#)

Arch Linux, Tailscale, SSH/SFTP

- Built a self-hosted server providing secure remote access, private cloud storage, version control, and a personal VPN across **4+** devices.
- Replaced \$600 worth of cloud services with a \$95 setup (84% cost reduction).
- Reduced idle power usage by 80% via Linux kernel tuning, powertop monitoring, and a GUI-less architecture.

Secruxity — Home Security System - [Read more](#)

WebRTC, Next.js, Cloudflare, Gemini API

- Repurposed legacy devices into a self-hosted camera system, achieving **90%** TCO savings (**\$90** vs. **\$950**) over a comparable consumer security camera subscription setup.
- Built a dashboard supporting up to **6** live WebRTC feeds, leveraging Cloudflare Tunnels to serve encrypted HTTPS.
- Integrated Gemini API to analyze camera frames at set time intervals, generating activity summaries and people-count data; architected for local LLM support via LLaVA for fully offline use.

Muscl3 — 3D Muscle Explorer - [View site](#)

React, Three.js, Supabase

- Boosted user engagement by **25%** through an interactive 3D web app visualizing muscle groups and workouts.
- Designed SQL schemas in Supabase and implemented automated database monitoring using GitHub Actions.

Technical Skills

Data & Analytics: Excel/Google Sheets, Power BI, SQL (PostgreSQL), Python (Pandas)

Systems & Tools: GNU/Linux, Windows, macOS, WSL, Wireshark, Git, GitHub, Docker, Kubernetes, Figma

Languages & Development: Python, JavaScript, Java, C++, Bash, HTML/CSS, React, REST/LLM APIs

Awards & Certifications

Dean's Honour List — Western University

2024–2025

3rd Place — Overhaul Hackathon

2025

Standard First Aid CPR/AED Level C

2025–2028