

ABDULLOKH TULKINOV

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abuu.ca

Education

University of Western Ontario

Bachelor of Science in Computer Science | GPA: 3.5, Dean's Honor List

Sep 2023 – Apr 2027

London, ON

Experience

Lamina Solutions

Research & UI/UX Design Intern

June 2025 – Aug 2025

Toronto, ON (Remote)

- Improved task completion speed by 30% through redesigned user flows and interactive **Figma** prototypes.
- Created storyboards and wireframes for new projects, improving team alignment.
- Performed **competitor analysis** and assessed **development-time tradeoffs** to support product decisions.

Projects

Secruity — Old Devices as Security Cameras | Next.js, TypeScript, Cloudflare Tunnels, Gemini API Nov 2025

- Co-developed a self-hosted security system that repurposes unused devices into real-time WebRTC video streams using **Cloudflare Tunnels**, locally storing captures.
- Implemented **multi-route Gemini pipelines** to add optional AI features such as **people-count detection** and real-time activity summaries.
- Designed a dashboard supporting **up to 6 encrypted feeds** with a toggle for single-camera or multi-camera viewing.

Personal Cloud & Server Deployment | Linux, Tailscale, Filebrowser, Git Ongoing

- Configured a secure home server using **Tailscale VPN** for private remote access and self-hosted cloud storage.
- Set up **Filebrowser** and **Git** for automated backups, syncing, and multi-device version control.
- Reduced idle power usage by 80% by optimizing **Arch Linux** with lightweight background services.

Muscl3 — 3D Muscle Explorer | React, TypeScript, Three.js, Supabase Jun 2025

- Co-developed an interactive 3D web app that visualizes muscle groups and recommended workouts, enhancing user engagement by 25%.
- Implemented cloud-based storage and live workout data retrieval with **Supabase**, improving responsiveness and supporting more workout entries with no performance loss.

SmartCart — Overhaul Hackathon (3rd Place) | React, TypeScript Feb 2025

- Created an accessible grocery checkout system featuring voice commands, magnification, and child-friendly modes.
- Contributed UI/UX flows, accessibility logic, and frontend implementation in a team of 4.

Pet Care Desktop App (Course Project) | Java, Maven, JavaFX Jan 2025 – Apr 2025

- Built a desktop pet care game in a 4-member team.
- Contributed to wireframing, class design, and core gameplay modules, resulting in a **98%** project grade.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, HTML/CSS

Frameworks/Tech: Next.js, React, Three.js, Vite, Supabase, API Integration (REST/LLM)

Tools/Systems: GNU/Linux, Git, GitHub, GitLab, Cloudflare Tunnels, Figma, Cursor

Leadership / Extracurricular

Etobicoke Humane Society

Volunteer

Jul 2022 – Dec 2022

Toronto, Canada

- Maintained animal health records using **Microsoft Excel** and **OneDrive**, supporting efficient care for 20+ pets.
- Assisted adoption events and provided animal care support.

Stonegate CHC

Camp Counselor & Promotions Assistant

Jun 2024 – Aug 2024

Toronto, Canada

- Supervised daily activities for 25+ children, ensuring a safe and positive program environment.
- Designed digital flyers and posters in **Canva** to promote community events, helping boost turnout.