

Mkareos Kzkoz

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EDUCATION

- **University of Guelph** Guelph, ON, Canada
Honours Bachelor of Computing — Software Engineering Sep 2025 – Apr 2029 (Expected)
- **Monsignor Percy Johnson Catholic Secondary School** Etobicoke, ON, Canada
Ontario Secondary School Diploma (OSSD) Sep 2021 – Jun 2025

TECHNICAL SKILLS

- **Languages:** Python, C, Java, JavaScript, TypeScript, HTML, CSS, SQL, Bash
- **Frameworks/Libraries:** React, Next.js, FastAPI, Node.js, Tailwind CSS, OpenCV, MediaPipe, PyTorch, Pandas
- **Tools/Platforms:** Git, GitHub, Linux, Docker, Vercel, Supabase, Pinecone, OpenSSL
- **AI/Data:** RAG, Vector Search, Semantic Search, Embeddings, Gemini API

PROJECTS

- **Verivance — Explainable RAG Search Engine | Aug 2026 | [GitHub](#) [Live](#)**
 - Indexed and embedded 281 document chunks in Pinecone for semantic retrieval; built a RAG pipeline that converts queries into embeddings, retrieves and ranks the top-5 relevant chunks by similarity, and sends that evidence to Gemini for grounded answer generation.
 - Developed a FastAPI backend and Next.js/React/TypeScript interface for source-traceable answers, ranked evidence, similarity scores, and web retrieval; packaged the system with Docker and deployed the frontend through Vercel.
- **RankedIn — LinkedIn Aura Score & Leaderboard — GDGHacks 2nd Place | May 2026 – Jun 2026 | [GitHub](#) [Live](#)**
 - Created a fully custom deterministic scoring engine that evaluates LinkedIn profiles across 8 weighted dimensions and generates an explainable 0–2,500 Aura Score displayed on a live public leaderboard.
 - Implemented a 3-tier scraping fallback chain — fresh scraper, enrichment API, and raw HTML parsing — to maintain profile-data reliability despite anti-scraping measures; built with Next.js 15, TypeScript, Tailwind CSS v4, Framer Motion, Supabase, and RapidAPI.
- **Lattix — Post-Quantum Cryptography Migration Lab | Aug 2026 – Present | [GitHub](#)**
 - Building a C backend on OpenSSL 3.5+ that runs real ML-KEM-768 key encapsulation, ML-DSA-65 digital signatures, and AES-256-GCM authenticated encryption for hands-on post-quantum migration testing.
 - Exposes the cryptographic operations through a Node.js/TypeScript API so users can compare classical and post-quantum algorithm workflows while inspecting key generation, encapsulation, signing, verification, and encryption behavior.
- **Visual Mouse — Computer Vision Hand Gesture Controller | Feb 2026 – Mar 2026 | [GitHub](#)**
 - Built a real-time webcam gesture controller using MediaPipe hand-landmark detection and OpenCV frame processing; mapped relative finger-distance gestures through PyAutoGUI to OS-level cursor movement and click actions.
- **Panic Pick — Pixel-Art Web Game | Apr 2026 – Jun 2026 | [GitHub](#) [Live](#)**
 - Developed a responsive browser game in vanilla JavaScript, HTML, and CSS with animated day/night themes, custom UI transitions, crisp pixel rendering, and interactive menus built without external frameworks.

AWARDS & ACHIEVEMENTS

- **GDGHacks — 2nd Place, Best Cutting Edge UI:** Recognized for interface design and technical execution on RankedIn.

VOLUNTEER EXPERIENCE

- Electrical Shop** Toronto, ON, Canada
Shop Assistant — Volunteer May 2021 – Dec 2022
 - Assisted customers with electrical product selection and supported electricians with tool setup and equipment handling.
 - Organized inventory and maintained a clean, efficient workspace to support daily shop operations.
- St. Behnam Syriac Orthodox Church** Toronto, ON, Canada
Tax Clinic Volunteer May 2021 – Jul 2021
 - Guided clients through tax procedures, scheduled appointments, and supported staff with document organization.