

Mkareos Kzkoz

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EDUCATION

University of Guelph

Honours Bachelor of Computing — Software Engineering

Guelph, ON, Canada
Sep 2025 – Apr 2029 (Expected)

Monsignor Percy Johnson Catholic Secondary School

Ontario Secondary School Diploma (OSSD)

Etobicoke, ON, Canada
Sep 2021 – June 2025

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, HTML, CSS, TypeScript, SQL, Bash/Shell Scripting, MATLAB
- **Frameworks & Libraries:** React, Node.js, OpenCV, MediaPipe, PyAutoGUI, Pandas, PyTorch, Tailwind CSS
- **Developer Tools:** Git, GitHub, Linux, VS Code, Vercel, LaTeX, Docker, npm/pip, Figma, Supabase
- **Design & Media Tools:** Adobe Premiere Pro, Adobe Photoshop, Unity, Blender 3D, DaVinci Resolve, Canva

WORK EXPERIENCE

RSG Group

Freelance Full Stack Engineer

Toronto, ON, Canada
Apr 2026 – Present

- Designed and built full-stack features for client web applications, covering both front-end interfaces and back-end logic.
- Developed responsive and user-friendly web interfaces using modern front-end technologies.
- Built and integrated REST APIs and database functionality to support application features.
- Collaborated directly with the client to scope requirements and deliver iterative updates.
- Improved application performance and followed best practices for clean, maintainable code.

PROJECTS

- **RankedIn — LinkedIn Aura Score & Leaderboard | GDGHacks 2nd Place:** Built a web app that scrapes LinkedIn profiles and runs them through a fully custom scoring engine to generate an explainable Aura Score from 0-2,500 across 8 dimensions: headline, experience, education, skills, about section, projects, profile completeness, and a recruiter signal bonus. Scores appear on a live public leaderboard updated in real time. Implemented a 3-tier LinkedIn scraping fallback chain (fresh scraper, enricher API, raw HTML parsing) to maximize data quality despite active anti-scraping measures. Built entirely without AI APIs using pure deterministic, rule-based text mining. Stack: Next.js 15 (App Router), TypeScript, Tailwind CSS v4, Framer Motion, Supabase (Postgres + Auth), RapidAPI.
- **Panic Pick — Pixel-Art Web Game | Portfolio:** Designed and developed a pixel-art style web game using HTML, CSS, and vanilla JavaScript. Implemented animated day/night themes with custom UI animations and transitions while maintaining crisp pixel rendering. Built responsive interactive game menus without external frameworks, structured modularly to support future expansion.
- **Visual Mouse — Computer Vision Hand Gesture Controller | Portfolio:** Built a real-time hand-gesture-controlled mouse using webcam input and computer vision. Designed click and move logic from relative finger distances, using MediaPipe for hand landmark detection and PyAutoGUI for OS-level cursor control.
- **Battleship — Java Game with AI Opponent | Portfolio:** Built a Java-based Battleship game pitting a player against an AI opponent on customizable grids. Applied object-oriented design patterns to separate board management, ship placement, and turn-based gameplay logic, with AI move selection driven by probability-based hunt and target strategies.
- **C Systems Programming — Coursework & Personal Projects | Portfolio:** Implemented programs in C exploring control flow, recursion, dynamic memory allocation, pointer arithmetic, file I/O, and core data structures (linked lists, stacks, queues). Strengthened low-level programming and debugging fundamentals through hands-on implementation.

AWARDS & ACHIEVEMENTS

GDGHacks — 2nd Place, Best Cutting Edge UI

- Awarded 2nd place in the Best Cutting Edge UI category at GDGHacks, a competitive hackathon recognizing outstanding and innovative user interface design.

VOLUNTEER EXPERIENCE

Electrical Shop

Shop Assistant — Volunteer

Toronto, ON, Canada
May 2021 – Dec 2022

- **Customer & Technical Support:** Assisted customers with electrical product selection and supported electricians with tool setup, equipment handling, and shop preparation tasks.
- **Inventory & Workspace:** Managed inventory organization and maintained a clean, safe, and efficient shop environment to support daily operations.

St. Behnam Syriac Orthodox Church — Tax Clinic Volunteer

May 2021 – July 2021

- **Tax Clinic Support:** Guided clients through tax procedures, scheduled appointments, and supported staff with document organization.