Yousef Kart

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EDUCATION

University of Windsor - GPA: 3.9/4.0 September 2021 – May 2025
Bachelor of Computer Science (Honours) & Minor in Mathematics *Windsor, Ontario*

EXPERIENCE

Scelta February 2025 – September 2025
Software Engineer (Full Stack) *Windsor, Ontario*
- Implemented a shared-authentication system for **SSO** across the Scelta Suite
- Co-developed a **Retrieval Augmented Generation** (RAG) data pipeline for the Sitekick **AI** assistant
- Designed and deployed a **standardized UI package** for Scelta web applications
- Created a **NextJS** app template according to Scelta requirements, reducing initial build time by more than **50%**
- Built a system to seamlessly embed **3D models** into web maps, improving visualization workflows
- Optimized database queries and API endpoints, decreasing loading times by up to **25%** and improving **UX**
- Developed an internal tool for automated testing across multiple applications, reducing build cycle times by **14%**
- Collaborated with cross-functional teams to ship and maintain features across **6** applications

Freelance June 2021 – February 2025
3D Modeller and Designer *Remote*
- Created hundreds of optimized assets for video games and 3D animations across **40+ clients** globally
- Modelled and rendered dozens of proposed real estate developments using architectural blueprints and site plans, ranging from single-family homes to **$100 million+** developments
- Produced cost-effective, presentation-ready visualizations in 3–5 days, **3x** faster than the competition average
- Enabled successful client pitches, directly contributing to increased sales and contracts

Tutoring September 2022 – May 2024
Programming & Mathematics Tutor *Windsor, Ontario & Detroit, Michigan*
- Tutored more than **10** engineering students in programming (**Python, C++, MATLAB**), data structures, and algorithms, by simplifying complex concepts into practical examples
- Strengthened students' problem solving skills by guiding them through proper programming practices, debugging, and exam preparation

SKILLS

Languages: Java, C++20, Python, TypeScript, Assembly (x86-64), SQL
Frontend Frameworks: Qt, React, NextJS, TailwindCSS, ThreeJS, Java3D
Backend & Database: Crow, NodeJS, Django, FastAPI, Supabase, Postgres
Dev Tools: CMake, Boost, OpenGL, OpenCV, Git, Vercel

PROJECTS

Black-Scholes Model Visualizer September 2025 – December 2025
- Built an interactive **Black−Scholes** option pricing visualizer in **C++**
- Implemented **real-time** parameter controls and dynamic plots to analyze volatility and time-to-expiry effects

AI Monitoring System | *"Most impressive project I've ever supervised" - Dr.Chen* September 2024 – April 2025
- A web-based application that allows any device to be used as a security camera using **WebRTC**
- Integrated **artificial intelligence** that can detect highly adjustable events of interest

Flag Frenzy | *Sold for $50,000 USD* September 2023 – April 2024
- Procuring **2.5 million** visits per month, with a **70%** like ratio

Escape Java | *1st place by vote out of 104 students* January 2023 – April 2023
- Developed an automated **.obj/.mtl** file parser, reducing the import overhead of textured 3D models by **90%**

AWARDS

Dean's Honour Roll 2022, 2023, 2024, 2025
University of Windsor *Windsor, Ontario*