

# Yousef Kart

(519) 991-6921 | yousefkart21@gmail.com | linkedin.com/in/yousef-kart | yousefkart.com

## EDUCATION

**University of Windsor - GPA: 3.9/4.0**

*Bachelor of Computer Science (Honours) & Minor in Mathematics*

September 2021 – May 2025

*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

*University of Windsor*

2022, 2023, 2024, 2025

*Windsor, Ontario*