Yousef Kart

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EDUCATION

University of Windsor   September 2021 – May 2025
Bachelor of Computer Science (Honours) & Minor in Mathematics   *Windsor, Ontario*

EXPERIENCE

Scelta   February 2025 – Present
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 global **40+ clients**
- 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**) and algorithmic proofs by simplifying complex concepts into practical examples
- Strengthened students' problem solving skills by guiding them through proper programming practices, debugging, and exam preparation

SKILLS

Frontend Frameworks: React, NextJS, Angular, TailwindCSS
Backend & Database: NodeJS, ExpressJS, Supabase, PostgreSQL
Languages: Java, Python, TypeScript, JavaScript, C, C++, HTML, CSS, SQL, Kotlin, C#
3D Tools: Unity, Blender, Maya, AutoCAD, Animotica, Soundly, Canva, Fspy

PROJECTS

AI Monitoring System | *"Most impressive project I've ever supervised" - Dr.Chen*   September 2024 – April 2025
- Web-based application that allows any device to be used as a security camera
- Integrated artificial intelligence that detects adjustable events

Flag Frenzy | *Sold for $5,250 USD*   September 2023 – April 2024
- Modelled all non-primitive 3D assets, animations, and textures using **Blender**
- 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 a 3D escape room game based off of the Computer Science Commons at the University of Windsor
- Created an automated **.obj/.mtl** file parser, reducing 3D model import overhead by **90%**

AWARDS

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