Ziad Elnagar

Portfolio | ziadelnagar11@gmail.com | (647)-803-6810 | LinkedIn | GitHub

EDUCATION

University of Western Ontario   **London, Ontario**
BESc, Software Engineering   **May, 2028**
- o   Related Coursework: Data Structures & Algorithms, Software Design, Database Management Systems
- o   Awarded **Scholarship of Distinction ($2,500)**

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, TypeScript*,* C#, C/C++, HTML, CSS, SQL, Bash, Swift, Go, Rust, Kotlin, Ruby, PHP
Frameworks & Tools: React, Node.js, FastAPI, Django, Flask, REST APIs, MongoDB, PostgreSQL, Unity, Git/GitHub, Docker, AWS

PROJECTS

BetterSplit | React, Tailwind CSS, Vite, Docker, FastAPI
- Developing a full-stack expense-splitting platform with **OCR**-powered receipt scanning; **reducing manual entry time by 90%** and improved **parsing accuracy by 80%**
- Enabling real-time debt tracking and balance summaries across users using FastAPI and MongoDB; supporting group expense logs for **15+ users per session**

Resumind | TypeScript, React, Tailwind CSS, Claude API
- Designed an **ML-powered** resume analyzer that boosted ATS keyword match scores by **up to 35%**, with **50+ resumes** processed during beta
- Integrated the **Claude-3.7-sonnet API** with a custom **keyword extraction algorithm** to generate tailored resume feedback based on job descriptions and resume context

Western Formula Website | React, Tailwind CSS
- Built a fully responsive website to showcase team structure, design goals, and technical achievements; supported **1,500+ monthly visitors** during the sponsorship season
- Engineered modular routing and a reusable component system to handle dynamic sections (e.g., Team, Tech, Events), improving update speed and **reducing code duplication and improving efficiency by 40%**

Citadel Break | Unity, C#
- Led a team of **6 engineers** to develop a 3D action-adventure game with modular architecture and scalable mechanics for enemy AI, level events, and player abilities; delivering a polished beta in under **12 weeks**
- Designed and implemented custom UI (health bars, objectives, tooltips), reducing player onboarding time by **50%** and improving test session completion rates to **92%**

Personal Portfolio Website | React, Tailwind CSS, Vite
- Developed a **responsive portfolio site** to showcase **personal projects and technical skills**
- Optimized layout and image delivery for mobile and desktop, reducing homepage load time by **25%**

EXPERIENCE

Western Formula Racing   **London, Ontario**
Software Developer   *Sep 2023 – Current*
- **Led a team of 15 software engineers** to build and maintain the official team website using **React** and **Tailwind CSS**
- Managed version control and collaboration via **GitHub**, ensuring consistent review cycles and clean deploys

Western Founders Network   **London, Ontario**
Director of Education   *Sep 2024 – May 2025*
- Organized Python & AI workshops, introducing **applied programming fundamentals** to **100+** participants
- Taught programming fundamentals like **data structures**, **APIs**, and **logic flow**; attendees improved their course exam scores by an average of **15–20%**

Mobile Klinik   **Milton, Ontario**
Head Electronics Technician   *May 2021 – Sep 2023*
- Diagnosed complex tech issues under pressure, earning a reputation for **clear communication** and **adaptable problem-solving**
- Managed sales and service operations, contributing to **$25K+ monthly revenue** and training new staff to cut onboarding time by **40%**