

# Ziad Elnagar

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## EDUCATION

University of Western Ontario

London, Ontario

BESc, Software Engineering

Expected Graduation, May 2027

- o Related Coursework: Algorithms & Data Structures, Software Design, Digital Logic Systems
- o Awarded **Scholarship of Distinction (\$2,500)**

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, C#, HTML, CSS

**Frameworks & Tools:** React.js, FastAPI, MongoDB, Flask, Django, Unity, Git, REST APIs

**Core Competencies:** Full-Stack Development, Data Structures & Algorithms, Software Design Patterns, Object-Oriented Design, Agile/Scrum

## PROJECTS

**Bill-Splitting Web App (Ongoing)** | React, FastAPI, MongoDB, OCR

July 2025 – Current

- Implemented a **full-stack web application** by utilizing React, FastAPI, and MongoDB, **impacting automation of expense sharing** for multi-user scenarios.
- Built and deployed **REST APIs** by using FastAPI and structured database schemas, **resulting in real-time data persistence and reliability**.
- Managed global state by using React Context API, **impacting seamless user experience and scalable interactions**.

**Citadel Break** | Unity, C#

February 2025 – May 2025

- Implemented a **3D systems project** by using Unity and C#, **impacting architecture scalability and interactive logic**.
- Applied OOP and design patterns by using modular architecture, **impacting scalability and maintainability** of game logic.
- Created custom UI elements by using Unity's UI toolkit, **improving clarity with health bars, objectives, and tooltips**.

**Western Formula Website** | React

October 2024 – February 2025

- Implemented a **scalable team website** by using React.js with modular components and routing, **leading to enhanced sponsor visibility and improved community engagement**.
- Optimized responsive design by using CSS grid/flexbox and media queries, **impacting accessibility across all devices**.
- Improved development workflow by using Git and Agile practices, **allowing for better collaboration and code quality for 15+ engineers**.

**Personal Portfolio Website** | React, HTML, CSS

September 2024 - October 2024

- Developed a **responsive portfolio site** by using React, HTML and CSS, **impacting professional visibility** with a platform to showcase projects and skills.

## WORK EXPERIENCE

Mobile Klinik

Milton, Ontario

Head Electronics Technician and Sales Manager

May 2021 – Sep 2023

- Diagnosed and repaired complex hardware/software issues, **reducing turnaround time by 20%**.
- Managed sales and service operations, **contributing to \$20K+ monthly revenue**.
- Trained junior staff and improved intake workflow, **boosting repair efficiency and customer satisfaction**.

## LEADERSHIP

Western Founders Network

London, Ontario

Director of Education

Sep 2024 – Current

- Organized Python & AI workshops, introducing **applied ML fundamentals** to **100+** participants.
- Designed structured learning modules that improved participant coding proficiency.

Western Formula Racing

London, Ontario

Software Developer

Sep 2024 – Current

- Contributed to official website development using React, Git, and Agile practices.
- Collaborated with a team of **15+** engineers on scalable tools for team operations.