

Ziad Elnagar

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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

EDUCATION

University of Western Ontario

London, Ontario

BESc, Software Engineering

Expected Graduation, May 2028

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

PROJECTS

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

- Implemented a **full-stack web application** by using 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, **impacting real-time data persistence and reliability**.
- Managed global state by using React Context API, **impacting seamless user experience and scalable interactions**.

Western Formula Website | React

- Implemented a **scalable team website** by using React.js with modular components and routing, **impacting sponsor visibility and 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, **impacting collaboration and code quality for 15+ engineers**.

Citadel Break | Unity, C#

- 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, **impacting clarity with health bars, objectives, and tooltips**.

Personal Portfolio Website | HTML, CSS

- Developed a **responsive portfolio site** by using 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.