

Ziad Elnagar

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EDUCATION

University of Western Ontario

London, Ontario

BESc, Software Engineering - Third Year

May, 2028

- o Related Coursework: Data Structures & Algorithms, Database Management Systems, Theoretical Foundations, Operating Systems, Embedded Systems, Networking & Cloud, Web Technologies, Quantum Computation
- o Awarded **Scholarship of Distinction (\$2,500)**

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, SQL, C#, C/C++, Ruby

Frameworks & Tools: Git, Django, React, Spring Boot, Docker, UML, Azure, Linux, MySQL, PostgreSQL, MongoDB, Aws, S3

PROJECTS

[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%**

[Western Formula Website](#) | React, Tailwind CSS

- Worked with **15+ Developers** to build a fully responsive website showcasing team structure, design goals, and technical achievements, website supported **1,500+ monthly visitors** during the sponsorship season
- Performed manual **testing** and **debugging** to resolve frontend issues, tracked defects using GitHub

[Resumind](#) | TypeScript, React, Tailwind CSS, Claude API

- **Automated** an AI-powered resume analyzer by integrating **Claude-3.7-sonnet API** with a custom **keyword extraction algorithm** to evaluate resume-job description compatibility
- Conducted testing across **50+ resumes**, improving ATS keyword match scores by up to **35% through personalized, real-time feedback**

AI Podcast Clipping SaaS | Python, FastAPI, WhisperX, LR-ASD, Gemini API, AWS

- Built an **AI-powered SaaS platform** that transcribes full podcasts, detects viral moments with **Gemini 2.5 Pro**, and generates speaker-cropped short-form video clips with subtitles for TikTok and YouTube Shorts
- Served **ML pipelines** using **FastAPI** with serverless GPU inference via **Modal**, managed clip generation and long-running jobs with **Inngest queues**, and stored assets on **AWS S3**

BetterSplit | React, Tailwind CSS, Vite, Docker, FastAPI, MongoDB, RabbitMQ, Kubernetes, AWS

- 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**

Figma Clone | Next.js, React.js, TypeScript, PostgreSQL, Spring Boot, WebSockets

- Built a real-time collaborative front-end design tool with live cursor tracking and shared canvas editing, using **Liveblocks**, **WebSockets**, and **PostgreSQL**, resulting in **30+** users creating and iterating on design boards
- Reducing design iteration time by over **60%** by implementing live multi-user editing, drag-and-drop canvas, snap-to-grid layout, and document saving

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

- Taught programming fundamentals like **data structures**, **APIs**, and **logic flow** to a **100+ attendees** resulting in an increase to their course exam scores by an average of **15–20%**