

Lydia Farag



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EDUCATION:

McMaster University

B.Eng. Software and Biomedical Engineering (Co-op), Class of 2025

Hamilton, ON

GPA: 3.90/4.00

Technical Languages JavaScript • Python • HTML5&CSS • Java • C • C++ • Verilog

Frameworks & Tools React.js • Vue.js • Django • RESTful APIs • Git • AutoCAD • Figma • SQL

Languages English(Native) • French (DEL F B2) • Arabic (Native, Conversational) • Spanish (Conversational)

WORK EXPERIENCE:

Evesco Edu | Physics Lecturer & Tutor

July 2021-September 2021 | Waterloo, ON

- Lectures, office hours, and curriculum development to instruct **70+ incoming first years** in university physics.

Break The Divide | Growth and Web Development Lead

June 2021-Present | Surrey, BC

- Full-stack **MEAN** development of company website, **reducing bounce rate by 26%**, optimizing SEO, and an email list.
- Designing and testing of a repeatable system to reach, onboard, and support students in global BTD chapter creation

CertifyME | Lead Front-End & UI/UX Developer

Feb 2021-June 2021 | Detroit, MI

- Design, development, and **back to front end integration** using the **MERN** stack for company website and app.
- UI/UX market research **increased** average user **session duration by 250%** while renovating site.

London Tumor Biobank | Assistant Researcher

Jan 2019- July 2019 | London, ON

- Collected and processed samples for various cancer studies, including **SIGNAL 2.0**, **TMIST**, **RUBY**, and the Biobank.
- **Data entry and analysis** using programs which include Freezerworks, RaveMeditidata, and ECOG-ACRIN.

Arcane Inc. | Code Camp Instructor

Sept 2016-Sept 2018 | London, ON

- Aided in teaching **100+ students** aged 12-17 JavaScript, HTML, and CSS fundamentals using **project-based learning**.

EXTRA-CURRICULAR INVOLVEMENT

McMaster Fintech | Jr. VP Analyst

April 2021 -Present | Hamilton, ON

- Performed technical valuations for startups coming through the McMaster Forge Incubator Program.

Medical Engineering Design Team | Workshop Creator

Sept 2020-Present | Hamilton, ON

- Hosted workshops for **300+ engineering students** on the topics of bioinformatics, FEA, and python for data science.
- Developed and demonstrated SimScale simulations of heart stents and hip replacements.

PROJECTS:

Ecomission | SheHacks 2021

Jan 2021

- Winner of the **Wolfram Alpha Award** for top 20 (of 108) projects submitted.
- Utilized Python, HTML/CSS, Bootstrap, and Django to create a webapp that calculates the carbon emissions based on user input of initial and destination postal codes.

Traffic Buddy | MacAI Hacks 2021

March 2021

- Using air pollution APIs and Pandas, Traffic Buddy optimizes and equalizes the road space rationing system.

AWARDS & CERTIFICATIONS:

Governor General's Award

Government of Canada-2020

- Awarded to the student with the highest cumulative average in their graduating class.

Oakridge Optimist Volunteer Award

London Optimist Club- 2020

- Monetary award donated to charity chosen by recipient, a student with great breadth of volunteering.

WHIMIS • CPR & AED • TCPS 2: Core • Ontario Smart Serve • Biosafety