

# Danial Suhail

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## Skills

**Programming Languages:** JavaScript, TypeScript, Python, Java, C++, C#, C, Dart, HTML, CSS, SQL.

**Frameworks:** ReactJS, React Native, NextJS, Tailwind CSS, ExpressJS, JQuery, Java Swing, TensorFlow, Flutter, Prisma.

**Technologies:** Git, NodeJS, REST, Postman, Docker, OpenCV, PostgreSQL, MongoDB, VS Code, Visual Studio, Jupyter.

## Experience

**Mathnasium** – Milton, ON.

**Aug 2023 – Nov 2023**

*Mathematics Instructor – Part-Time*

- Administered weekly math notes/worksheets through the Instructor Manager Learning Tool to track, evaluate, and assign new curriculum to **100+** students across different proficiency levels from **K-12**.
- Employed effective conceptual teaching methods, delivering **500+** tailored packages resulting in positive student reviews.

**e2 Young Engineers** – Milton, ON.

**June 2023 – July 2023**

*Programming/Robotics Instructor – Coop*

- Prepared and conducted daily Lego Robotics lessons/problems for academically inclined students providing useful resources for academic success.
- Learned to explain **Python** concepts with varying difficulties and received positive reviews from students/parents.
- Developed Custom Coding Lessons with an initiative to further adapt to different students' teaching preferences and was appointed as a Strategy Instructor to instruct young **800+** rated Chess players for drastic improvement.

## Projects

**Lexigo** – [GitHub](#) | (React Native, Tailwind CSS, TypeScript, Hugging Face API, TensorFlow, Expo.io)

**Oct 2023 – Nov 2023**

**AR/AI-Language Learning Mobile Application**

- Designed **React Native** Front-End components with **Tailwind CSS** to supply multi-platform compatibility (**iOS, Android**).
- Executed NLP real-time language translation with **Hugging Face API** and object detection/identification by finetuning **TensorFlow's** COCO-SSD API achieving an **85%** accuracy while ranking top **10** at **Uoft HTV 8**.

**RecipeLens** – [Website](#) | (Flutter, Dart, Android Studio, Edamam API, Spoonacular API)

**Aug 2023 – Sept 2023**

**Ingredient-to-Recipe Search Mobile Application**

- Pioneered dual API compatibility (**Edamam API, Spoonacular API**) fetching **900+** recipe API results while managing text-to-speech, HTTPS requests, and SVG implementation.
- Spearheaded the mobile concept/layout through **Figma** while working on Front-End and Back-End integration providing a responsive modern minimalistic home page resulting in **Best UI/UX Design** out of **300+** participants.

**BookVault** – [GitHub](#) | (C#, WinForms, .NET)

**Jan 2023 – Feb 2023**

**C# Library Management Database System Application**

- Led team of **3**: organized meetings, delegated tasks, helped teammates debug, etc., leading to a final grade of **98%**.
- Implemented Windows Forms UI redesign providing structure through **UI/UX Design** and cohesive package implementation for Barcode/QR Code Scanner to ISBN through an automated update process (**C#, WinForms, .NET**).
- Constructed the application concept, layout, and brand to help create an immersive bug-free interactive user experience.

## Education

**University of Waterloo – Waterloo, ON.**

**Expected Graduation: April 2028**

Bachelor of Applied Science (BASc), Computer Engineering (Co-op)

**Courses:** Communication in Engineering, Classical Mechanics, Fundamentals of Programming, Linear Algebra, Calculus 1.

**Awards:** University of Waterloo President's Scholarship and Ted Rogers Entrance Scholarship.