

# Eric Liu

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## Education

### UNIVERSITY OF TORONTO

H.B.Sc. IN CO-OP COMPUTER SCIENCE

GPA: 3.78/4.00

Graduation: May 2027

## Projects

### HANDS-ON FLUENCY 🔄 | REACT, TENSORFLOW, OPENCV, FLASK, MYSQL

NewHacks

- Implemented an ASL learning platform using OpenCV and TensorFlow's machine learning capabilities to interpret user hand signs in real time, enhancing learning with immediate feedback on sign accuracy
- Engineered a sophisticated user system with Flask and MySQL, enabling users to access personalized learning paths based on skill levels, tracking user progress and proficiency levels within the platform

### EXERTRACK 🔄 | REACT, TYPESCRIPT, NODE, EXPRESS, MONGODB, BOOTSTRAP

Personal Project

- Developed a website enabling the addition and modification of exercise logs in real-time, enhancing usability as well as easy data retrieval and modification for users
- Leveraged Node, Express and MongoDB to create a robust back-end that can support a multi-user experience with separate sets of exercise data

### ANIDEX 🔄 | GOOGLE CLOUD PLATFORM, FIREBASE, NODE, EXPRESS, REACT, VERTEX AI

GenAI Genesis

- Deployed a mobile app using Google Cloud Platform that aims to provide an educational experience for wildlife discovery, where users capture images of animals to build a digital collection similar to Pokemon
- Implemented Google's Vertex AI to classify animal images captured by the user, which also returns a set of descriptive qualities, providing insight into an animal's diet, habitat, and vulnerabilities
- Utilized Firebase and Node.js to create a back end that allows for seamless updates to user collections and wildlife data upon image capture of an animal

### FOCUS BOT 🔄 | PYTHON, DISCORD API, GOOGLE TRANSLATE API, CHEMLIB

Personal Project

- Programmed a Discord bot equipped with task management functionalities using the Discord API, allowing users to set and manage timed reminders, suitable for a school/study Discord environment
- Integrated a translation tool within text channels using the Google Translate API, facilitating easy communication and learning among multilingual users

## Extracurriculars

### GOOGLE DEVELOPER STUDENT CLUB | UNIVERSITY OF TORONTO

Sep 2023 - Present

- Volunteered in networking events and tech talks, attracting attendances of up to 100 students per session, and helped secure speakers, facilitate discussions, and foster a vibrant academic community
- Helped coordinate tech literacy workshops for students enrolled in technical fields increasing club visibility and garnering recognition, leading to a 20% rise in membership

## Skills

**Languages:** JavaScript, TypeScript, Python, Java, C, C++, SQL, HTML, CSS

**Libraries/Frameworks:** React.js, Node.js, Express.js, Flask, Tailwind.css, NumPy, TensorFlow

**Technologies:** Git, MongoDB, Google Cloud Platform, Firebase

## Work Experience

### METRO | PRODUCE ASSOCIATE

May 2023 - Present

- Enforced strict quality control protocols to maintain the highest standards for produce freshness and presentation, resulting in a noteworthy decrease in product returns and customer complaints