

Eric Liu

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Education

UNIVERSITY OF TORONTO

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

GPA: 3.85/4.00

Graduation: May 2027

Projects

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

GenAI Genesis Hackathon

- 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

SECURE ME 🛡️ | NEXT, NEXTAUTH, AWS, MYSQL, NODE, EXPRESS, JAVASCRIPT

Personal Project

- Created a password management application using Next.js, which employs NextAuth.js for secure user session authentication and handling login requests with user credentials
- Utilized AWS to deploy a MySQL database instance via RDS, leveraging the advanced security and scalability features included within the AWS platform
- Employed BCrypt to securely store login credentials in the database to reduce risk within data breaches, as well as using a many-to-many relationship to store multiple passwords associated with each user

HANDS-ON FLUENCY 🐼 | REACT, TENSORFLOW, OPENCV, FLASK, SQLITE

NewHacks Hackathon

- 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 SQLite, 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 and a REST API 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.js, Express.js and MongoDB to create a robust back-end that can support a multi-user experience with separate sets of exercise data

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

Skills

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

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

Technologies: Git, MongoDB, Google Cloud Platform, AWS, MySQL, Firebase, Bash

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