

Ethan Sylvester

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EXPERIENCE

Step Sciences

London, ON

Full Stack Developer

August 2024 - February 2025

- Created NoSQL database models and maintained the configuration and upkeep of the Firebase data store.
- Developed a REST API using Python Flask and Firebase, enabling secure and efficient storage of sensitive patient data, doctor records, and supplier information.
- Deployed web and mobile applications to Firebase and Google Cloud to be used by over 300 people

Front End Developer

May 2024 - August 2024

- Designed and created sleek mobile and web based user interfaces to provide validated error-free data entry reducing errors and duplication by over 90%
- Produced an interface for remote doctors to provide diagnosis based on client provided data, images and videos
- Reduced time spent on repetitive tasks and human error by over 80% by building automation features such as insurance form completion and PDF creation

Software Engineer Intern

March 2024 - May 2024

- Developed the architectural blueprint and user experience for a proprietary CRM platform
- Evaluated over 10 competing CRM solutions and delivered a comprehensive report that influenced feature selection of a new platform, resulting in 50% higher client order resolutions
- Delivered detailed data flow diagrams and comprehensive system documentation in collaboration with a senior engineer.

BipBip

Montreal, QC

Mobile Application Developer

October 2022 - May 2023

- Built in features such as in app real time navigation and directions using Google Maps API
- Updated data handling protocol to send and receive data required in scope, reducing network cost by 40%
- Modified existing architecture to use lazy loading when possible to boost app wide performance by 20%

PROJECTS

Sign Language Alphabet Classifier | Python, Google Colab, Tensorflow

March 2025 – Present

- A machine learning classifier with 29 total outputs: A-Z, space, nothing, and 'other'
- Engineered a convolutional neural network incorporating dropout layers and data augmentation techniques to eliminate overfitting increasing validation accuracy by 15%
- Model consists of training, validation and testing data using a dataset of 84,000 200px by 200px full color images
- Accuracy of 91% achieved when determining if an image contains sign language, and if apparent sign language falls into one of the 29 classifications

EDUCATION

George Brown College

Toronto, ON

Advanced Diploma, Computer Programming and Analytics

January 2023 – April 2025

- Dean's Honor List Scholar
- **Teaching Assistant:** Assisted in teaching COMP 1234: Intro to Web Development, COMP 1235: Full-Stack Development, COMP 2080: Data Structures and Algorithms, COMP 1168: Database Management, COMP 2102: Object Oriented Programming
- **Academic Tutor:** Provided academic support through the T197 Mobihelp program for Computer Programming and Analysis students.

TECHNICAL SKILLS

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

Technologies and Frameworks: React, Node.js, Express.js, Next.js, Tailwind CSS, Bootstrap, .NET, QT, Flask, Spring boot, Angular, Flutter, SwiftUI, Unity3D, Unreal Engine 5

Developer Tools: Git, Docker, TravisCI, Anaconda, Google Colab, Google Cloud Platform, Firebase, AWS, Azure, Jenkins, Render, Vercel

Database Technologies: MySQL, PostgreSQL, SQLite, Oracle SQL, SwiftData, Firebase, MongoDB, Supabase