

# 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