

# Pranav Varma

[pranavvarma603@gmail.com](mailto:pranavvarma603@gmail.com) | [linkedin.com/in/pranavarma](https://www.linkedin.com/in/pranavarma) | [github.com/prannyyv](https://github.com/prannyyv) | [pranavvarma.vercel.app](https://pranavvarma.vercel.app)

## EDUCATION

### University of Western Ontario

Expected June 2026

*Honours Specialization in Computer Science*

*Average: 90.3%*

Awards: Western Scholarship of Distinction, RBC Design Thinking Fellow, Dean's Honors List 2023

Relevant Coursework: Data Structures & Algorithms, Data Science, Software Tools, Linear Algebra, Discrete Math

## EXPERIENCE

### Systems & Software Developer Intern

May 2023 – Aug 2023

*Office of the Chief Coroner, Ministry of the Solicitor General*

*Toronto, ON*

- Modernized coroner's databases in **SQL** and Access by streamlining data retrieval, caching frequently accessed data, and reducing excess computation, resulting in a **22%** decrease in database lookup and report building times
- Developed new case input website using **ReactJS** and **NodeJS** while conducting **8** user interviews to validate user experience centric design improvements allowing forensic pathologists to efficiently log **1300+** intake cases
- Implemented a **Tensorflow** based machine learning model in **Python** to identify bias in case narratives, scene descriptions, sociodemographic data, appearance details, and coroners' notes with **86%** testing accuracy

### Full-Stack Software Developer Intern

Apr 2023 – Aug 2023

*Alibi*

*Toronto, ON*

- Built the mobile application MVP for Alibi using **React Native** that led to **650+** bookings with 8 venues
- Led the end-to-end design and development of user flows for the app in **Figma** and implemented key pages with React Native and **Tailwind CSS** for users to visit their profile, settings, bookings, and login
- Configured one time password verification and account management of **120** users using **Firebase** authentication

### Software Developer

Sept 2022 – Present

*Western AI*

*London, ON*

- Developed a space saving app that analyzes photo quality to determine if photos are blurry in a team of 4
- Created a natural learning model using **Tensorflow** Keras libraries in **Python** that has over **92%** accuracy
- Designed mobile app with **Flutter** that uses model to analyze photos from an album and decreases storage by **16%**
- Utilized **SQL** databases to efficiently back up photos and videos and further reduce phone storage by **13%**

## PROJECTS

### Miso API | *Python, Cohere, ReactJS, Flask* | [GitHub](#)

A model that uses Cohere's Natural Language Processing to determine whether messages are gender discriminatory.

- Awarded the "**Best Hack** to Promote Female Empowerment Within STEM" at UofTHacks X
- Scraped various online databases to curate a dataset of **20,000+** lines that was used to train our model
- Implemented Miso via **Python** Discord Bot and **ReactJS** site with a **RESTful API** on **Flask** which yielded a **92%** prediction accuracy for toxic messages and **84%** prediction accuracy for gender discriminatory messages

### Sightful | *ReactJS, NodeJS, TypeScript, Express, Google Cloud API* | [GitHub](#)

Chrome extension designed to simplify the Youtube experience by flagging all inappropriate or triggering content.

- Created Chrome extension using **React** and **Typescript** to develop hub for users to view flags on a certain video
- Used **Google Cloud API** to obtain Youtube links, convert videos to transcript, and generate timestamps
- Leveraged **Node** to create our machine learning back end and connected to front end using **Express**.

### Ivey Sustainability | *ReactJS, NodeJS, TailwindCSS* | [GitHub](#)

Web application on behalf of Ivey's Sustainability Branch for information about their faculty, events, and members.

- Developed a responsive web app using **ReactJS** and utilized **Tailwind CSS** to streamline application styling
- Designed **6** pages in **Figma** and optimized app for performance and **SEO**, ensuring fast load times and search engine visibility which has allowed us to maintain **800+** monthly active web users

## TECHNICAL SKILLS

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

**Frameworks/Tools:** ReactJS, NodeJS, Express, Cohere, Flask, Flutter, Git, Unity, Xcode, Figma

**Libraries:** Tensorflow, Matplotlib, Tailwind, NumPy, OpenAI, SDL, Selenium