

Pranav Varma

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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, Linear Algebra

EXPERIENCE

Systems & Software Developer Intern

May 2023 – Aug 2023

Office of the Chief Coroner, Ministry of the Solicitor General

Toronto, ON

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

Full-Stack Software Developer Intern

Apr 2023 – Aug 2023

Alibi

Toronto, ON

- Built MVP for Alibi, mobile application using **React Native** that led to **550+** bookings with 6 venues
- Designed user flows for the app in **Figma** and implemented key pages with React Native and **Tailwind CSS** for users to visit their profile, settings, and bookings
- 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 four
- 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 by hosting an API with **Flask**

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.

TECHNICAL SKILLS

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

Frameworks: ReactJS, NodeJS, Express, Flask, Flutter

Developer Tools: Cohere, Git, NodeJS, Xcode, Android Studio, Unity

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

Other: Figma, Microsoft Access, Adobe Photoshop, Adobe Premiere Pro, Office 365