

Pranav Varma

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EDUCATION

University of Western Ontario

Honors Specialization in Computer Science

Expected Graduation April 2027

GPA: 3.7/4.0 (86%)

Awards: RBC Design Thinking Fellow (\$3500), Western Scholarship of Distinction (\$2,500), Dean's Honor List 3x

Relevant Coursework: Data Structures & Algorithms, Relational Databases, Operating Systems, Compiler Design

WORK EXPERIENCE

Shopify

Software Engineer Intern – Payments Infrastructure

May 2025 – Aug 2025

Toronto, Ontario

- Implemented purchase-type flags in transaction processing, achieving an **8%** increase in successful authorization rates.
- Deployed **MySQL** database migration to add **2** foreign keys, eliminating manual parsing and saving **6** hours/week.
- Resolved idempotency key mismatches in **Ruby** across various payment endpoints, eliminating duplicate transactions.
- Prototyped barcode scanning with checkout integration for Shop app, showcasing potential scan-to-buy functionality.

Dayforce

Jan 2025 – Apr 2025

Software Developer Intern – Core Services

Toronto, Ontario

- Optimized database queries with **server-side caching**, reducing portal load times from **8** seconds to sub-**500ms**.
- Implemented API gateway to manage data flow between **15+** disparate legacy services and new portal infrastructure.
- Integrated **SSO** system to eliminate separate logins, reducing access-related support tickets by **65%** for **2000+** users.
- Configured real-time form validation using **JavaScript** and **C# Web API**, reducing invalid submissions by **70%**.

Google

May 2024 – Aug 2024

Software Engineering Intern – Workspace & Drive Apps

Waterloo, Ontario

- Engineered interactive banner in Workspace Marketplace using **TypeScript**-like framework tailored to enhance visibility for **30+** strategic partners, yielding a **20%** improvement in partner apps' monthly active users.
- Implemented scalable **RESTful API** in **Java** for banner application database queries; optimized query execution patterns and request handling to reduce response times by **16%** and enhance overall platform reliability.
- Developed unit & integration test suites in **JUnit & Jest** with **90%** code coverage, reducing post-deployment issues.
- Addressed marketplace design inconsistencies across Workspace suite that drove **20%** increase in user retention.

Royal Bank of Canada

Sep 2023 – Dec 2023

Design Thinking Fellow

London, Ontario

- Designed high fidelity mockup in **Figma** for financially at-risk immigrants to navigate Canadian banking systems; built a fully functional **Flutter** demo that received **95%** positive feedback from senior executives.
- Leveraged insights from design thinking workshops to hold **6** user interviews, translating gathered findings into targeted UI components that reduced user error rates by **40%** and increased task completion speed by **2.2x**.

Government of Ontario

May 2023 – Aug 2023

Systems & Software Developer Intern

Toronto, Ontario

- Streamlined data retrieval processes in coroners' **SQL** databases, decreasing lookup and report building times by **22%**.
- Implemented **Tensorflow** based machine learning model in **Python** to identify bias with **86%** testing accuracy.

PROJECTS & LEADERSHIP

Western Developer's Society – Co-President

Co-President of Western's fastest growing tech club with 450 active members

- Spearheaded nonprofit technology initiative delivering **8** full-stack **MERN** applications for local organizations, providing hands-on experience for **50+** student developers and **\$40K+** in pro-bono development services.
- Organized networking panels to connect **200+** students with industry professionals and build recruitment pipelines.

Miso API – Python, Cohere, React, Flask | Github

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

- Awarded the "**Best Hack to Promote Women in STEM**" out of **800+** hackers 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 RESTful API** with **Flask**, achieving a **92%** accuracy for toxic message detection.

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

Frameworks/Tools: React, Node, Next, Express, Flask, Cohere, Flutter, Figma, Git, Unity, Xcode, .NET

Libraries: Tensorflow, Matplotlib, Tailwind, NumPy, OpenAI, Google Cloud, SDL, Selenium