

# MARK GOBRIEL

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## EDUCATION

University of Toronto

Expected Graduation: April 2027

Honours Bachelor of Science in Computer Science | 3.7 GPA

**Relevant Coursework:** Software Design, Software Tools & Systems Programming, Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Statistics & Probability, Multivariable Calculus

**Organizations:** Google Developer Student Club, Computer Science Student Club, Intramural Soccer

## RELEVANT SKILLS

**Languages:** Java, Python, Kotlin, HTML & CSS, JavaScript, C, TypeScript, Swift, Liquid

**Software/Frameworks:** Spring, Hibernate, Pygame, NumPy, Bootstrap, React, Node.js, CameraX, SQLite, TensorFlow

**Tools:** Git, GitHub, Shopify, Maven, Javadoc, JUnit, VS Code, IntelliJ, PyCharm, Android Studio, Figma

## PROJECTS

Microsoft Paint App Clone | Java, Maven, JUnit, Javadoc, Ollama API

October 2024 – December 2024

- Used Java to build a fully functional Paint application that features different shapes, a color picker, line thickness selector, options for fill/no fill, eraser, text fields, undo/redo, and save/load capabilities.
- Integrated the Ollama API to enable natural language prompts for generating AI-drawn visual art directly within the application, enhancing user creativity and engagement.
- Utilized prompt engineering techniques and post-processing algorithms to refine AI-generated drawings, ensuring high-quality and parsable file outputs that seamlessly align with user expectations.

Kutenda | Kotlin, CameraX, SQLite

October 2024 – Present

- Used Kotlin to build a robust fraud prevention system.
- Developed a real-time license plate recognition feature using CameraX that matches plates against a pre-registered SQLite database to prevent fraud and unauthorized access.
- Enhanced user engagement by incentivizing bus drivers through rewards, resulting in increased profitability and customer visits to the Centre.

Experience Egypt Tourism Website | HTML, CSS, JavaScript

December 2021 – Present

- Employed HTML, CSS, and JavaScript to create a dynamic and immersive tourism platform for Egypt.
- Built a fully responsive website that showcases key cultural and historical landmarks, enhancing visitor interaction and engagement.
- Optimized website performance and user experience, leading to increased traffic and prolonged user sessions.

## EXPERIENCE

MOTHERLAND Clothing

February 2024 – Present

CEO & Founder

Mississauga, ON

- Customized the Shopify Dawn theme extensively using JavaScript, Liquid, and CSS, optimizing the website for a 30% faster load time and resolving over 15 critical bugs to enhance user experience and functionality.
- Created custom email automations using Shopify APIs and Liquid to target abandoned carts and checkouts, boosting customer retention and recovering lost sales.
- Streamlined brand image across all customer touchpoints by designing cohesive marketing assets, curating social media content, and aligning the e-commerce platform’s design with the brand’s vision.

Squirrel ASL Translator

November 2023 – April 2024

Researcher & Developer

Mississauga, ON

- Researched, curated, and preprocessed American Sign Language (ASL) datasets, applying advanced feature extraction techniques to enhance model training and performance.
- Engineered and optimized machine learning models using Python and TensorFlow to transcribe ASL gestures, improving recognition accuracy by 20%.