

# TONY NGO

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## EDUCATION

### University of Guelph

Sept. 2020 – Apr. 2025

Bachelor of Computing, Software Engineering, Minor in Business

Guelph, ON

- GPA: 4.0/4.0 | Dean's Honours List for all terms

## TECHNICAL SKILLS

**Languages:** Python, Java, Javascript, SQL, HTML, CSS, PHP, C, SPARQL

**Libraries & Frameworks:** Node.js, React, Vue.js, Angular, Azure, Flask, PostgreSQL, Ragas, Langchain, LlamaIndex

**Developer Tools:** Git, Docker, Confluence, JIRA, JTMF, Azure OpenAI, Pandas, Cucumber, Windows, MacOS, Bash

## EXPERIENCE

### RBC

January 2024 – Present

Software Developer Intern

- Joined the Data Platform Engineering team - Tech. stack: Python, Java, Scala, Spark, Azure, PostgreSQL, Docker
- Creating AI prompts using **Python**, **Azure OpenAI**, and **Langchain** to aid with data and legacy code migration
- Developing retrieval augmented generation (RAG) scripts to reduce costs from In-Context (ICL) prompting
- Constructed text embeddings for input context, allowing an **LLM** to consume the context from a vectorstore

### TD Bank

May 2023 – August 2023

Quality Engineer Intern

- Created and implemented tests with **Java**, **Selenium**, and **Gherkin** for newly released UI & components, contributing to the seamless delivery of high-quality software for clients
- Consolidated, debugged and revamped **392** test cases for existing objects, leading to a **12%** acceleration in test automation execution within **Jenkins**, ensuring faster feedback loops and expedited release cycles
- Conducted rigorous testing of **429** test cases using **Cucumber** within a behavior-driven development process, verifying their alignment with the UI, adherence to **JIRA** user stories, and compliance with **JTMF** standards
- Streamlined and optimized the test case routing and execution flow of **253** test cases, resulting in **19%** enhancement in test speed and performance using **Cucumber** and **Maven**

### Schema App

September 2022 – December 2022

Software Developer Intern

- Developed a **full-stack** subscription reactivation page with Stripe payment gateway integration and billing address verification, handling data encryption and transaction processing, using Vue.js, **Javascript**, PHP, and **Python**
- Increased client satisfaction by **14%** through continuous UI enhancements and test coverage improvements made to the client application, client tools and company website using Vue.js, Javascript, PHP, **Jest**, and **PHPUnit**
- Improved code security by **12%** through meticulous identification and resolution of security risks and bugs in **PHP**
- Optimized **Vue.js** components and used techniques such as code splitting, caching and lazy loading to improve code re-usability, rendering, and page-load performance by **18%**
- Worked cross-functionally with Marketing & Sales teams to write 6 **SPARQL** queries, used to monitor and analyze the Schema performance of **50+** businesses, helping Customer Success Manager's drive success with their clients

## PROJECTS

**My Fitness Planner** | Javascript, Vue.js, Node.js, Supabase, Tailwind

[myfitnessplanner.netlify.app](https://myfitnessplanner.netlify.app)

- Created a **full-stack** fitness application that allows users to record, edit and plan workout routines
- Implemented login authentication using **Supabase**, allowing users to register, log in and log out by email

**Link Shrink It** | React, Python, Flask, Firebase

- Built a **full-stack** web application to deliver fast and reliable URL shortened products, stored in **Firebase** database

**SVG Parser** | C, Javascript, Express.js, Node.js, AJAX, HTML, CSS, Bootstrap

[github/tonyngoo/svgparser](https://github.com/tonyngoo/svgparser)

- Developed a versatile SVG file manipulation tool, enabling users to upload, select, and edit SVG files, to add shapes, and to select, scale and view individual elements of an SVG file

**COVID-19 Data Analyzer** | Python, Tkinter, Matplotlib

[github/tonyngoo/DataAnalyzerCOVID](https://github.com/tonyngoo/DataAnalyzerCOVID)

- Contributed in the development and **Scrum Leading** of a **Python** data processing and analysis system that extracts **10,000+** entries from Ontario's COVID-19 database to facilitate a deeper understanding of the pandemic's impact