Dhrumil Patel

 [dhrumilpatel09@hotmail.com](mailto:dhrumilpatel09@hotmail.com)

 [647-237-5214](https://dhrumil0902.github.io/portfolio/)

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# SKILLS

**Languages:** Python, C, C++, JavaScript, SQL, PowerShell, HTML/CSS

**Tools:** PostgreSQL, Streamlit, Unix, Git, Linux, React, Node.js, Code Sanitizers, Valgrind

# EXPERIENCE

**FGF Brands**– *IT Security Co-op* May 2022 – Aug 2022

* Conducted initial investigation of escalated network and security events
* Reviewed security policies and facilitated onboarding security training
* Created remote door opener application using **JavaScript** and **CSS/HTML**
* Developed **PowerShell** **script** to automate ping-testing for all physical security devices
* Connected and monitored various hardware devices via access control software

**Mitacs Globalink***– Mentor* Jan 2022 – Present

* Mentoring12 undergrad students from 5 countries doing research internships at UofT
* Organized multiple social events for students to network and explore Toronto
* Connecting interns to appropriate resources for a successful research term and providing weekly support

**Toronto Zoo**– *Guest Relations Group Leader* Mar 2019 – Oct 2021

* **Supervised**, **Trained** and **Evaluated** Cashiers based on Zoo policies
* Handled guests’ inquiries via phone, email, in-person and coordinated with manager to resolve issues
* Re-counted cashiers’ till, checked cashiers’ paperwork and communicatedmajor errors to manager
* Updated and accessed customer information using a **Microsoft CRM**

**City of Markham***– Programming Teaching Assistant* Sept 2019 – Aug 2021

* Taught algorithms, data structures, and best coding practices in python to high school students
* Collaborated with teaching team to create new projects and improve delivery

# EDUCATION

**University of Toronto**, B.A.S, Computer Engineering Sep 2020 – May 2025

**GPA:** 3.85 / 4.0

**PROJECTS** [(see more here dhrumil0902.github.io/portfolio/#projects)](https://dhrumil0902.github.io/portfolio/#projects)

# Stock Info App

* Access real-time data and discussions related to thousands of tickers (developed using **Streamlit Python**)
* Utilized **Yahoo Finance, Twitter, and Reddit APIs** to extract tweets, threads and other information related to a ticker

# Mapping System

* Built a Geographic Information System (GIS) for various cities using **C++**, EZGL graphics library and Open Street Map API
* Solved travelling salesman problem and implemented A\* algorithm to find shortest route between two points **under 150 ms**

# Whac-A-Alien Game

* Built from scratch in **C**, using **double pixel buffering**, **hardware interrupts**, and **graphics animations**
* Computer version of “whac-a-mole” carnival game, involving hitting aliens with a hammer using keyboard keys