SAGARIKA RABINDRANATH

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EDUCATION

University of Toronto — Sept 2020 - May 2025 (expected)

Bachelor of Applied Science in Computer Engineering + PEY Co-op

- **Major:** Software Engineering and Control Systems
- **Minor:** Aritificial Intelligence
- **Relevant Courses:** Intro to Computer Programming (Python) | Computer Algorithms and Data Structures (C)| Programming Fundamentals (C++) | Computer Organization (Assembly)| Software Communication & Design (C++) | Intro to Databases | Intro to Machine Learning |
- **Awards:** Dean's Merit Award ($10 000)

SKILLS

Programming: Python, C, C++, CSS, HTML, GIT, Javascript, React (in progress), Django (in progress)

PROGRAMMING EXPERIENCES

Royal Bank of Canada - Summer Internship — May 2022 - Aug 2022

DEVELOPER

- Lead developer for talent management web application using **Django** and **React.js** to streamline the internal recruiting process
- Created wireframes for UI
- Collaborated with team to convert business requirements to development requirements
- Collaborated on fine-tuning database design

Robotics for Space Exploration - Rover Arm Team — May 2022 - Present

TEAM MEMBER

- Aided in fine-tuning DH parameters for inverse kinematics to manoeuvre the rover's arm position in **Python**
- Updated secondary Arduino i2C code in **Arduino C** to use interrupts for communication between primary and secondary Arduinos

Course Project - GIS Mapping Software — Jan 2022 - April 2022

- Developed a mapping software using **C++ STL** and OpenStreetMap database
- Implemented path-finding algorithms for travelling salesman problem
- Made map GUI using **EZGL** and **GTK**

Diamandis Lab - University of Toronto — Aug 2021 - April 2022

VOLUNTEER RESEARCH STUDENT

- Automizing Stroop Tests (Neuropsychological test) using speech to text transcriptions in **Python** with JSON files, and **pandas**
- Completed a comprehensive literature review for Graph Neural Networks and Generative Adversarial Neural Networks in Pathology
- Aided team members with ongoing projects

Undergraduate Big Data Challenge — May 2021

- Collaborated with my peers to analyze the correlation between political ideologies on promoting/interacting with misinformation on Twitter
- Aided in programming with **Python** and **Microsoft Azure** to extract and analyze information from large datasets of Twitter tweets

KuriusHacks Hackathon - 3rd Place — Aug 2020

- Participated in a 48-hour hackathon in a team of 2 and was presented challenges from three non-profit organizations
- Created an engaging and informative virtual habitat for the non-profit Canadian Polar Bear Habitat to educate users about polar bears

OTHER EXPERIENCES

Fundraiser - The Happy Race — May 2021 - Oct 2021

DIRECTOR OF FINANCE AND LOGISTICS

- Organized fundraiser events for CAMH to help provide mental health relief in light of the pandemic
- Led the planning of **2** marathon events (running and biking) with **30** participants
- Helped raise participation by **30%** for the second event