Paarth Kashyap

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Education

University of Toronto Toronto, ON

Bachelor of Applied Science, Computer Engineering + PEY Co-op *Sept 2022 - 2027*

- Double Minor in **Artificial Intelligence** and **Engineering Business**
- Relavent Courses: Software Design & Communication, Computer Organization (NIOS II Assembly), Programming Fundamentals (C++), Computer Fundamental (C), Digital Systems, Engineering Strategies & Practice

Technical Skills

Languages: C++, C, Python, Java, Assembly, MATLAB
Tools/Libraries: HTML, CSS, Selenium, Jupyter Notebook, RegEx, Swing, pandas, NumPy, Matplotlib, PyInquirer, GitHub, Git
Experienced in: LEGO Robotics and VEX Robotics

Experience

Research Assistant July 2022 – Sept 2022

Queen's University *Kingston, ON*

- Filtered through **1000+** journals regarding Code Architecture, increasing team productivity by **50%**
- Applied string searching, meta-reading, and snowballing techniques to compile a comprehensive file of resources

Data Research Intern July 2021 – Sept 2021

Queen's University *Kingston, ON*

- Developed a database of over **10000 entries** for commenting patterns found in Smart Contracts by leveraging **Python and RegEx**
- Increased efficiency by **100%** through the creation of a command-line interface using **PyInquirer** for updating internal publication database

Projects

Grocery Store Queue Management System Simulation November 2023

C++

- Minimized queue wait times by **30%** by optimizing grocery store queue management through OOP fundamentals and data structures
- Utilized debugging techniques like Rubber Duck Debugging, Backtracking, and Program Slicing to resolve errors while testing the program

Alerting Bracelet - Design Project March 2023

Arduino, C++

- Created a proposed design solution using an **Arduino** circuit using audio sensor, vibrating disk motors, LEDs, and 3D printed poly-carbonate casing
- Decreased the setup and activation time by ∼**45%** compared to current outgoing solution through multiple iterations

Movie Recommendation Feb 2022

Java, Swing, AWT

- Developed a recommendation program with both back-end and front-end properties using **Java** and **Swing**
- Achieved a recommendation accuracy of **85%** using Collaborative Filtering which bases recommendation from similar profiles and current movie ratings

Automatic Music Downloader May 2021

Python, Selenium, Tkinter, BeautifulSoup

- Increased MP3 import speed from YouTube by **2 times** utilizing **Python** and **Web-scraping**
- Built an UI with **Tkinter** for user entry visualization and manage current and downloaded entries