Paarth Kashyap

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Education

University of Toronto Toronto, ON

Bachelor of Applied Science, Computer Engineering + PEY Co-op *Expected Graduation 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, MS Office
Tools/Libraries: HTML, CSS, Selenium, Jupyter Notebook, 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*

- Gathered and filtered data for a study focusing on code changes
- Conducted literature reviews to identify relevant journals/papers
- 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*

- Assisted in data collection for an exploratory study on code commenting patterns in smart contracts
- Developed Python algorithms using regular expressions to extract data from smart contracts
- Increased efficiency by 50% through the creation of a command-line interface using PyInquirer for updating/adding publications

Projects

Grocery Store Queue Management System Simulation | *C++* November 2023

* Leveraged linked lists and OOP fundamentals to streamline queue management, handling customer arrivals, departures, and register operations seamlessly in response to user commands
* Utilized debugging techniques like Rubber Duck Debugging, Backtracking, and Program Slicing to resolve errors while testing the program

Alerting Bracelet - Design Project | *Arduino, C++* March 2023

* Designed a device to alert children with ADHD of their loud volumes in a team of 5
* Followed a vast number of idea generation methods including blue-sky thinking, black-box method and SCAMPER
* Prototyped and tested proposed design solution using an Arduino circuit using vibrating disk motors, LED lights, and 3D printed polycarbonate casing

Movie Recommendation | *Java, Swing, AWT* Feb 2022

* Developed a recommendation program with both back-end and front-end properties utilizing Java and Swing
* Utilized OOP, Data Structures and Algorithm practices to simulate an application with profiles and user-specific information

Automatic Music Downloader | *Python, Selenium, Tkinter, BeautifulSoup* May 2021

* Created python program utilizing objects and inheritance which automates downloading songs from YouTube as an MP3, increasing import process time by 100%
* Developed a UI for entry of songs for users to visualize their download requests and edit current requests