

Rehan Nasir

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Education

York University, *Honours Bachelor of Science in Computer Science*

September 2021- Expected June 2026

Relevant Coursework: Data-Structures and Algorithms, Theory of Computation, Machine Learning, AI and Programming Logic, Advanced Object-Oriented Programming, Software Tools, Computer Organization

Projects

Etsy Extract, *Python, BeautifulSoup*

- Developed a **Python** script that **extracts detailed information** from Etsy about public sellers and their products.
- Implemented the **Beautiful Soup** library to **parse** website data accurately and efficiently.
- Utilized the **concurrent futures** library to process requests in **parallel** to retrieve information faster.

Web Portfolio, *HTML, CSS, JavaScript*

- Designed a personal portfolio to **showcase** projects, skills, interests and detailed information about my life.
- Optimized site accessibility across different devices with the use of **media queries** and responsive design.
- Integrated JavaScript to add **animation libraries** and **dynamic features** for a better user experience.

Flight Price Predictions, *Python, Pandas, Matplotlib, seaborn, NumPy, Sci-kit learn*

- Engaged with teammates to develop a **machine learning algorithm** to forecast the **price of future flight tickets**.
- Trained and **regression models** and assessed their performance metrics to determine the optimal model.
- Modified and cleaned a dataset with over **300,000** samples for a more in-depth analysis.
- Analyzed the dataset via **seaborn** and constructed graphs to find any correlations between features.

GuessX, *Java, Android Studio, JUnit*

- Collaborated with teammates to develop an Android app guessing game with **Java** using **Android Studio**.
- Included **3 different game modes**, including a custom game mode where users can enter their own range for more accessibility, and a local co-op mode where multiple players can compete.
- Designed a **user-friendly interface** to enhance immersion and provide a faster gaming experience.
- Added Junit tests for a smooth experience, ensuring 100% test coverage.

Experience

YorkU Connection Hub, *Event Coordinator*

September 2021 - May 2023

- Coordinated a club to make networking more convenient for over **150** freshman students during the pandemic.
- Planned virtual events and activities to enhance social interaction among members.

Vex Robotics Competition, *Lead Designer*

September 2019 - November 2019

- Spearheaded a team of strong and passionate members to design and create a highly optimal robot to compete in the Tower Takeover competition, built using VEX parts and VEX Code.
- Competed against **36** different teams and finished in 4th place.

Technical Skills

Languages: Java, Python, HTML/CSS, C, C++, Assembly, Verilog, JavaScript

Tools & Frameworks: Git, NumPy, VS Code, GitHub, PyCharm, Linux, Office 365