

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, Beautiful Soup*

- 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.

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.

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 fine-tuned **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.

Experience

YorkU Connection Hub, *Volunteer 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.

City of Toronto, *Volunteer*

April 2018 - January 2019

- Planned and participated in events for a campaign funded by the City.
- Designed different logos, slogans, and other material for merchandising.
- Organized multiple information booths to increase awareness for an anti-smoking campaign.

Technical Skills

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

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