

Jaber H. Chowdhury

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Experience

Research Assistant, University of Alberta

May 2023 – Sep 2023

- Extracted relevant research data from hundreds of gigabytes of Kickstarter html pages saved over years into CSV/Excel files and improved performance of script using multiprocessing (84% speedup).
- Automated handling of large datasets (100k+ records), reduced errors by handling missing/corrupt data, and added features like dynamic headers, currency conversions, and error logging.
- Implemented robust web scraping solutions with Selenium, bypassing bot detection using undetected_chromedriver and VPN proxies for getting recent Kickstarter data.
- Consolidated multi-source datasets into efficient SQLite databases, integrated modular utility scripts, and improved pipeline reliability through debugging and refactoring.

Projects

[steam-library-year-visualizer](#) | Python (Matplotlib, BeautifulSoup)

- Created a program that scraps release year of games in the library from a given steam profile link by using requests and BeautifulSoup and then creates a bar chart from the acquired data using matplotlib.
- Uses multithreading to get data as fast as possible.

[Inventory App](#) | Java, Android Studio

- Developed an android app with other 5 teammates for keeping track of home items.
- Used Agile methodology to keep track of project development milestones.

Social Network Website | Python (Django), JavaScript

- Built a mock Social Network Website with 4 other teammates using Django and JavaScript and following REST APIs.

Aminer Database Search Project | Python (pymongo, json), MongoDB

- Developed a program with 2 other team members that loads data from sample Aminer publication data into a MongoDB database and provides instant author, article, and venue searches with pymongo.
- With 1 million lines of publication data, loading took less than 5 minutes.

[cave dragon finder](#) | Python (BeautifulSoup, pyautogui)

- Built a script that scraps information on which dragon eggs are currently available and notifies the user when a desired dragon egg is obtainable in the online game Dragon Cave.

Skills

Programming Languages: Python (Matplotlib, BeautifulSoup, openpyxl, pymongo, django etc.), C, C++, SQL, SQLite, HTML, CSS, JavaScript, RISC V, Java, VBA

Software: GitHub, MongoDB, IBM SPSS, Android Studio

Volunteering

Edmonton Meals on Wheels | Edmonton, AB

Oct 2021 – Aug 2023

Kitchen Helper

- Helped create and package hundreds of meals for vulnerable Edmontonians.
- Worked together with a diverse team of people to meet daily targets on meals.
- Mentored and trained groups of new volunteers.

Education

University of Alberta | Edmonton, AB

January 2021 – Present

Bachelor of Science in Computing Science with Specialization in Software Practice