Saim Zafar

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Skills

- **Languages** : Python, C, Java, JavaScript, SQL, HTML, CSS
- **Frameworks / Tools** : MySQL, SqLite, Power Bi, Power Automate, DAX, Microsoft SQL Server
- Strong communication skills in multiple languages both verbally and written including English
- Familiar with Agile methodologies and Software Design Life Cycle

Professional Experience

Business Reporting Analyst – *RLB CPA Firm, Guelph*   May 2022 - Sep 2022
- Created multiple dashboards to enable executives to view metrics like revenue, employee performance and future payments
- Optimized in-house SQL scripts to reduce load times of multiple key dashboards by 35
- Worked with the Head of RLB Digital on a blog about structuring webform data as referenced here

Bamboo HR Dashboard – *Python, Power Automate, Power BI*   Jun 2022
- Created power automate scripts to extract hiring data from Bamboo HR webpage
- Developed a Python script to extract and transform data from multiple sources to be viewed in a single excel sheet
- Designed a dashboard for the hiring team to easily compare candidates and help reduce HR's decision making time

Implementing Box content management – *Box API, Postman, Box Governance, Box Shield*   Jul 2022
- Worked in co-ordination with the IT team to implement Box data management system within the firm
- Created a data governing scheme using data classifications to reduce accidental data leakages

Projects

Web Crawler – *Python, SQL*   Aug 2022
- Crawls the web by performing multiple searches from an initial point and storing the results in a database
- Used the Page Rank algorithm to rank the stored data and view the most relevant results
- Setup a visual interface showing the interconnected nature of web pages with the help of d3 library

Undefeatable TIC TAC TOE – *Python, Dynamic Programming, Object Oriented Programming*   Apr 2022
- Created a Tic Tac Toe game UI in terminal using python and object oriented programming
- Implemented the min-max algorithm to simulate through all the possible combinations and compute the best move
- Developed a simulation to test the effectiveness of the program using a random number generator

Certifications

Specialization in Python – *Coursera, University of Michigan* – **Certificate**   Oct 2021
- Studied major Python topics such as strings, collections, iterables, modularity and objects
- Built strong fundamentals in core software concepts such as data structures, APIs, and databases
- Developed a web crawler to parse email data and visualize most frequently used words in a word cloud

Algorithm Toolbox – *Coursera, University of California San Diego* – **Certificate**   Jan 2022
- Studied multiple new algorithms and computed their time and space complexity
- Optimized inefficient programs using new techniques and stress tested them to ensure correctness and efficiency

Education

University of Waterloo - Candidate of Bachelor of Honours Mathematics   Jan 2021 - Present
- Pursuing a Double Major in Computational Mathematics and Statistics with a Minor in Economics
- Awarded President's Scholarship of Distinction and President's Upper-Year Awards

Volunteer Experience

- Black Tie Orientation Leader (2022) - Volunteered with organizing math orientation for the term of Fall 2022.
- Cancer Aid Society - Volunteered with the Cancer Aid Society and helped them raise funds and awareness at my school.