Insiyah Ujjainwala

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Education

BASc Computer Science, (Finance Minor) McMaster University - Hamilton, ON

September 2021 - Present

→ Received the Engineering Award of Excellence
→ **Core Courses:** Discrete Mathematics, Data Structures and Algorithms, Logical Reasoning for Computer Science, Concurrent Systems, Databases, Analysis of Economic Data, Introductory Macroeconomics, Probability and Statistics for Engineering, Introduction to Financial Accounting

Work Experience

IT Intern, TK Elevators - Dubai, UAE

May 2022 - August 2022

→ Conducted user-acceptance testing sessions for the entire Middle East team for the company's latest Business Process Automation website
→ Liaised with the Hong Kong team to troubleshoot flaws in the latest application through regular working sessions, resulting in a 2 week early release of the application
→ Customized the intranet SharePoint sites for all entities in the Middle East, by migrating data from local servers, organizing the data department wise on the websites and streamlining the design across all the sites to reflect the company's theme
→ Led training sessions focussing on M365 products such as SharePoint for over 25 managers, resulting in team-wide adoption of 3 new features and a significant increase in the use of the SharePoint sites

Projects

Data Analysis Project: Sleep, Health and Lifestyle

November 2023

→ Conducted an in-depth analysis on a dataset from Kaggle to explore the complex relationship between sleep patterns and lifestyle choices in a diverse population.
→ Employed statistical methods to identify significant correlations between daily activities, habits, and sleep quality.
→ Aimed to demystify sleep behaviors and provide insights into how lifestyle factors impact sleep health.
→ Successfully completed the Jovian course, 'Data Analysis with Python: Zero to Pandas", mastering advanced analytical techniques and achieving proficiency in Python and data analysis libraries like Pandas and NumPy

Comparative Analysis of Pathfinding Algorithms

April 2023

→ Collaboratively worked with a team to analyze and compare Dijkstra's, Bellman-Ford's, and A* pathfinding algorithms. Managed diverse scenarios involving graphs with up to 1,000 nodes, determining optimal algorithmic efficiency and applicability in varying network sizes and complexities
→ Optimized pathfinding solutions, particularly demonstrating Dijkstra's algorithm's efficiency in standard scenarios and A*'s effectiveness in dense, complex networks, like a simulation of the London subway system, enhancing computational efficiency by over 30%

Count with Fruits - Basic Operations Game

January 2022 - April 2022

→ Collaborated with a team of five people to design an addition and subtraction game for elementary school students using the Elm IDE
→ Worked on more than 10 prototypes before completing the final one, which included more than 800 lines of code
→ Responsible for creating graphics such as a numeric keypad and a variety of fruits using the ShapeCreator tool within the IDE

Clubs and Extracurriculars

Social Media Manager, McMaster Computer Science Society

September 2021 - Present

→ Designed new framework for promoting club events through instagram, discord and print media, resulting in a 65% increase in student engagement and participation
→ Worked with the society to organize 3 unique events, the most notable of which was the 200-student Networking event with Bell featuring Google for students to learn about machine learning and discuss opportunities at Bell with recruiters

Technical Skills

→ **Programming Languages:** Python | Java | C | Haskell | Prolog | R | HTML | CSS
→ **Python Libraries:** Pandas | NumPy | Matplotlib
→ **Database Management:** MySQL
→ **Software:** Microsoft Office | Git