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

→ Successfully led user-acceptance testing sessions for the Middle East team, ensuring the seamless launch of our new Business Process Automation website, which enhanced operational efficiency and user experience
→ 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
→ Revamped and standardized the intranet SharePoint sites for all Middle East entities by migrating data from local servers, organizing it by department, and aligning design with the company's theme, significantly improving data accessibility and visual consistency
→ 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

→ Played a key role in a 5-member team to develop an educational game in Elm IDE, focusing on addition and subtraction for elementary students, enhancing their learning experience
→ Diligently iterated over 10 prototypes, culminating in a robust final version comprising over 800 lines of code, showcasing commitment and attention to detail
→ Led the graphic design aspect by creating engaging visuals, including a numeric keypad and assorted fruit graphics, using ShapeCreator in Elm IDE, to make the game more interactive and visually appealing for young learners

Clubs and Extracurriculars

Social Media Manager, McMaster Computer Science Society

September 2021 - Present

→ Innovatively designed a multi-channel promotion framework for club events, leveraging Instagram, Discord, and print media, achieving a 65% boost in student engagement and participation
→ Collaborated in organizing 3 distinct society events, highlighted by a 200-student Networking event with Bell, featuring Google, to educate on machine learning and facilitate discussions with recruiters, enhancing career opportunities for students

Technical Skills

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