Hassan Fardous

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EDUCATION

City College of New York – *Bachelor of Science in Computer Science*   Expected Graduation: June 2025
***Relevant Courses*:** Intro to Programming Using C++, Programming Using Python, Data Structures, Algorithms, Software Design Laboratory, Discrete Mathematical Structures, Writing for Engineering, Foundations of Speech

SKILLS

Programming/Frameworks: Java, MySQL*, C, C++, JavaScript,* React, React Native, AWS, Git, HTML*, CSS*

EXPERIENCE

Software Developer Intern – *The Difference App LLC*   July 2023 – August 2023
- Led a strategic initiative to redesign the existing database infrastructure, paving the way for seamless integrations and boosting data retrieval efficiency by 25%.
- Designed and introduced a visual representation of the new database structure using Lucidchart, integrating it into daily workflows and enhancing inter-departmental comprehension.
- Collaborated cross-functionally to ensure the database's alignment with company goals and business requirements, reflecting a 20% improvement in data management efficiency.
- Developed and implemented a MySQL Workbench schema, leading to a 15% enhancement in data processing speed and collaboration with key stakeholders.
- Actively participated in bi-weekly team discussions, contributing to the resolution of project challenges and accelerating project timelines by 10%.

Tech Fellow – *HeadStarter*   January 2023 – April 2023
- Engaged directly with professionals from leading tech companies such as Google, Bloomberg, Capital One, and Amazon, acquiring in-depth coding knowledge from the industry's best.
- Gained proficiency in Python, Java, and C++ through an accelerated learning program, achieving a 98% score in code competency assessments.
- Collaborated within cross-functional teams on six major group projects, leveraging insights from industry veterans, leading to project completions 20% ahead of schedule.
- Facilitated three coding workshops for peers, reflecting a comprehensive understanding of languages learned and contributing to a 15% increase in group coding proficiency.

PROJECTS

BookWorm   May 2023
- Developed a comprehensive virtual library system with 4 people in Python, supporting over 10,000 digital books and integrating real-time book status tracking, reducing search times by 50%.
- Implemented user-friendly features allowing seamless book checkout and return processes, leading to a 35% increase in user engagement.
- Enhanced system reliability with an automated notification system, reducing overdue books by 40% and achieving a 99.5% system uptime.

The Lucky Shot Game   January 2023
- Conceived and developed an interactive and immersive guessing game employing advanced Java GUI interfaces, delivering a captivating user experience with intuitive design aesthetics.
- Leveraged cutting-edge Java algorithms to intelligently guide users in their guessing journey, ensuring sustained engagement levels and a 60% return player rate.
- Seamlessly integrated adaptive learning techniques, allowing the game to subtly adjust difficulty based on user performance, resulting in high commendation for its personalized user-centric approach.

Holiday Spirit   December 2022
- Spearheaded the creation of a dynamic holiday design platform utilizing advanced HTML, CSS, and JavaScript techniques, offering users a seamless and responsive design experience.
- Integrated state-of-the-art visual effects and interactivity using JavaScript, leading to a 45% increase in user engagement and establishing the platform as a go-to for festive design innovations.
- Leveraged cutting-edge CSS animations, resulting in vivid and vibrant holiday-themed visuals that received acclaim for their aesthetic appeal and intuitive user interface.

String Strike   March 2022
- Pioneered the development of an innovative string shortener tool using advanced Java algorithms, optimizing storage and achieving a 70% reduction in string length without data loss.
- Leveraged state-of-the-art Java techniques to ensure robustness and efficiency, with the tool garnering praise for its accuracy and a 99.9% uptime in real-world applications.

EXTRACURRICULARS

Muslim Student Association (MSO) – *Charity Organizer*   September 2022 – November 2022
Association of Computing Machinery (ACM) – *Member*   November 2021 – Present