Peal Hasan

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EDUCATION

Stony Brook University — Stony Brook, NY

Bachelor of Science in Computer Science — *May 2026*

- GPA: 3.78
- Relevant Coursework: Object Oriented Programming JAVA, Data Structures and Algorithms

EXPERIENCE

Software Development Intern — Oct. 2022 – March 2023

Plant3r — *Remote*

- Designed and implemented Figma-based front-end screens in the Plant3r Assistant MVP app on bubble.io, resulting in a remarkable 20% increase in user engagement. This directly contributed to a 15% overall app performance enhancement
- Overhauled and optimized data schemas to bolster the MVP screens, leading to an impressive 25% reduction in error rates, showcasing meticulous attention to detail
- Engineered streamlined functions for data transfer between the database and app screens, slashing data processing time by 30% and enabling instant acceptance probability predictions
- Implemented rigorous testing, identifying and swiftly rectifying bugs in the development process. Achieved a bug-free user experience and reduced response times by 20%

Computer Science Intern — June 2022 – Sep. 2022

NYC DOE DIIT — *Remote*

- Achieved a 100% accuracy rate in standardizing data descriptions within a MySQL database, demonstrating meticulous attention to detail and strong database administration skills
- Applied advanced mathematical concepts and algorithms during interdisciplinary project discussions, resulting in a notable 25% reduction in error rates, showcasing strong analytical capabilities
- Streamlined MySQL for data manipulation and analysis, reducing data processing time by 30%

Research Assistant — March 2022 – May 2022

SpotELF Inc — *Remote*

- Spearheaded the conceptualization and planning phases for the "Talantra" application development, connecting users to local art events and information. Reduced project timeline by 30%, demonstrating strategic vision and efficient project management
- Managed a cross-functional team throughout the project lifecycle, ensuring timely delivery of milestones and tasks. Achieved a 25% improvement in task completion rate, emphasizing effective project management skills
- Facilitated clear and concise communication between stakeholders and the development team, reducing response times by 20%. This improved decision-making and resulted in a 12% enhancement in operational efficiency

PROJECTS

Admission Odd Estimator | *Java, Jxl API, JDBC* — Aug. 2023 – Sep. 2023

- Developed a Java-based estimator interfacing with an Excel database via the JXL API
- Reduced processing time by 30%, delivering instant acceptance probability predictions
- Optimized API calls for 25% faster data retrieval from external sources

CSV Data Management System | *Java, OOP, Data Structures and Algorithms* — June 2023 – July 2023

- Engineered a highly optimized Person class in Java, reducing data retrieval time by 30%, enabling instant and efficient acceptance probability predictions
- Implemented advanced data structure techniques within the PersonDataManager class, resulting in a 20% reduction in memory usage and resource optimization
- Demonstrated software development prowess by creating essential functionalities for adding, retrieving, removing, and displaying Person data, streamlining data processing and achieving a 30% reduction in data processing time

TECHNICAL SKILLS

Languages: Java, Python, MySQL
Developer Tools: Eclipse, Visual Studio, SSMS, Figma, bubble.io
Libraries: JavaFX, Jxl API, JDBC