**Kashif Mohammed**
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**Education**
*Harper College* - Bachelor's Degree in Computer Science
**Transferring to 4 year university:** August 2025
**Expected Graduation:** May 2027
Relevant Coursework: Object-Oriented Programming, Data Structures, Discrete Mathematics, Calculus

**Projects**

**RPG Street Fighter-Style Game** | *C++, Object-Oriented Programming*

* Designed a turn-based RPG game where players battle computer-controlled enemies, incorporating attack, dodge, special abilities, and healing.
* Implemented core mechanics with a C++ Character class featuring attributes like health, shield, and ability availability.
* Implemented AI for enemy actions to create dynamic and unpredictable gameplay.

**Tic Tac Toe Game with AI and PvP Modes** | *C++, File I/O*

* Created a Tic Tac Toe game supporting both Player vs Player (PvP) and Player vs AI modes.
* Engineered game mechanics including board display, win conditions, and draw detection.
* Developed an AI component with random move logic to challenge players.
* Implemented file I/O for logging game results and applied object-oriented principles for code organization and readability.

**Student Management Database System |** *Python, SQL*

* Developed a database system to manage student records, including adding, updating, and deleting student information.
* Utilized SQL to handle data queries, storage, and manipulation, with Python for the application logic.
* Implemented robust error handling and data validation mechanisms to ensure data integrity.

**UML Bank Management System | C++**

* Developed a bank account management system using UML principles, allowing users to perform basic operations like deposits and withdrawals.
* Created an Account class with attributes such as account holder's name, ID, and balance, applying object-oriented design principles.
* Implemented features such as balance checking, error handling for insufficient funds, and dynamic user input

**Technical Skills**

* **Languages:** Python, C++, SQL
* **Frameworks:** Flask
* **Tools:** Git, VS Code, Pycharm | **Libraries:** Pandas, NumPy, Matplotlib