RAYYAN HUDA





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EDUCATION

UNIVERSITY OF WATERLOO | 3.5 GPA

September 2024 - April 2029

Systems Design Engineering (Bachelors of Applied Science)

Awards: President's Scholarship of Distinction

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL, MATLAB

Tools: Figma, SolidWorks, AutoCAD, Google Cloud, Node.js, Pytest, Jira/JQL, Boost(C++), MS Office Suite

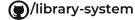
PROJECTS

PORTFOLIO WEBSITE | JavaScript, HTML, CSS | January 2025



- Developed a fully responsive website with interactive elements, including hover effects, dynamic animations, smooth transitions, and jQuery effects to improve user engagement.
- Deployed on GitHub pages optimizing load times and ensuring site security, achieving 99% performance and 85% accessibility scores on Lighthouse using Chrome DevTools.
- · Optimized the design for various screen sizes and cross-device compatibility using media queries, and ensuring a speed index of 0.6 seconds.

LIBRARY SYSTEM | C++ | December 2024



- Designed a Library Management System in C++ with 4 core modules, able to manage more than 1,000 books and 500 users.
- Developed classes for books, libraries, and a hierarchical library user structure, supporting 100+ unique user interactions across Teacher and Student roles.
- Implemented inheritance, polymorphism, and encapsulation to deliver a scalable system, reducing code duplication by 30% and a response time under 50 ms.

CONNECT FOUR REPLICA | Java | May 2024



- Developed an object-oriented Connect 4 replica game that enables a two-player mode and handles player input through event handling and method invocation to allow keyboard interactions to place counters in the grid and increase efficiency by 60%.
- Implemented an object array and core mechanics, including alternating turns and win condition checks using static and instance methods to manage game logic and improve runtime by 45%.
- Designed a user-friendly interface with GUI components for an interactive player experience

WORK EXPERIENCE

TEACHING ASSISTANT

March 2023 - August 2024

Kumon Institute of Education Co. Ltd. | Surrey, BC

- Delivered personalized instruction and customized learning plans to improve students' academic performance, focusing on critical thinking and problem-solving skills.
- · Evaluated assignments, monitored progress using data-driven approaches, and devised innovative strategies to address individual learning needs.
- · Leveraged analytical and organizational skills to manage multiple students' performance data, ensuring continuous improvement and measurable academic growth.