# RAYYAN HUDA

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## **EDUCATION**

#### **UNIVERSITY OF WATERLOO**

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, SQL, MATLAB

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

# **PROJECTS**

LIBRARY SYSTEM | C++ | December 2024

(ibrary-system)

- 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

(p)/connect-four

- 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

#### FOOD ORDERING APP | Figma | March 2024

🚺 /food-app

- Designed a high-fidelity prototype for a food ordering app incorporating over 20 interactive screens and intuitive navigation.
- Streamlined user flows for order placement, checkout, and profile management by designing 15+ wireframes for menus, notifications, and payment methods, reducing steps by 30% to increase efficiency and user satisfaction.
- Enhanced usability by testing navigation pathways, achieving a 90% positive response rate from simulated user testing sessions.

### 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.