

Wilhen Alberto Hui Mei

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Education

University of Massachusetts Boston

May 2024

Computer Science – Bachelor of Science

GPA: 3.91 | Honors College | Dean's List

Relevant Coursework: Introduction to Python, Programming in C, Data Structures and Algorithms in Java, Object-Oriented Programming, Discrete Mathematics, Linear Algebra, Probability and Statistics, Calculus I & II, Physics I & II, Social Issues and Ethics in Computing.

Skills

- **Programming:** Python, Java, C, R, Assembly (Intel i386), JavaScript.
- **Website:** HTML, CSS.
- **Tools:** Visual Studio Code, GitHub, PyCharm, IntelliJ, CodeBlocks, RStudio, PuTTY, WinSCP, Console/Terminal, LaTeX, VMWare, Microsoft Office Suite, Google Workspace for Education (Google Drive, Gmail).
- **Languages:** Fluent in Spanish, Chinese (Cantonese), and proficient in French.

Projects

N-Queens Puzzle – Python

Spring 2023

University of Massachusetts Boston

- Implemented an algorithm with backtracking to find a solution to the N-Queens puzzle. The puzzle consists of placing N queens in an N x N chess board so that they don't attack each other, diagonally, horizontally, or vertically.
- Since it's a constraint-satisfaction problem, a degree heuristics function was implemented to choose the variable with the most constraints within the same column.
- Computed Arc-Consistency-3 and Forward Checking algorithms to remove positions within the board to avoid redundant searches.

Number of Islands – Java

Fall 2022

University of Massachusetts Boston

- Computed the number of "islands" in a N x N 2D array, where squares can be occupied or empty (true/false). An island is represented by an occupied square or a group of occupied squares that share common edges (north, west, south, east).
- Implemented a greedy recursive approach to add islands into an array list of sets containing occupied squares and calculated the size and number of islands in the grid.

Mini-projects – HTML, CSS, and JavaScript

Summer 2022

Personal Projects

- Created small websites to learn more about front-end development (ex. Bible quiz, personal portfolio, market website, etc).

Work Experience

Retail Sales Associate – Office Supplies

Sep. 2020 – Present

Staples Inc., Weymouth, MA

- Worked with several hundred customers a week to provide excellent customer service in a busy work environment.
- Provided translation to customers who spoke Spanish and Chinese and fulfilled their needs.
- Stocked and organized store merchandise, ensuring customers would be able to shop comfortably.

Involvement

Computer Science Club – Officer

Jan. 2022 – Present

University of Massachusetts Boston

- Assisted the president with running meetings once a week, guided students with setting up their laptops, and provided videos and other resources to newcomers.
- Cooperated with the team to produce club activities and topics to run on sessions to share information regarding the computer science major, career paths computer science has, and concepts that may or may not have been discussed in lectures.
- Helped share club's goals and details on our Discord server and computer science classrooms to attract students looking to hear from guest speakers from different fields and tech industries, workshops, and other opportunities.

College of Mathematics and Science (CSM) Ambassadors – Ambassador

Sep. 2021 – May 2022

University of Massachusetts Boston

- Provided incoming first-year students and families with necessary information regarding the College of Mathematics and Science in Information Sessions, Welcome Days, and Open Houses.
- Collaborated with the Student Success Center's guidance to provide better college experience to new students, such as communication and leadership skills.

Memberships and Awards

- Alpha Lambda Delta Honor Society May 2021 – Present
- University of Massachusetts Boston Honors College Sep. 2020 – Present
- National Honor Society Sep. 2019
- CareerSafe Certified for IT Jun. 2018