Wilhen Alberto Hui Mei

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Education

University of Massachusetts Boston   **May 2024**
Computer Science – Bachelor of Science
GPA: 3.9 | Honors College | Dean's List

Relevant Coursework: Artificial Intelligence, Data Science, Software Engineering, Computer Graphics, Data Structures and Algorithms, Object-Oriented Programming, Discrete Mathematics, Linear Algebra, Probability and Statistics, Computer Architecture and Organization, Operating Systems, Theory of Computation.
Certificates: Python for Data Science, Build a ML Model with Python Skill Path, AI Algorithms for Gaming, Learn SQL, CareerSafe for IT.

Skills

Programming:
- **Proficient:** Python, Java, C, JavaScript, HTML5, CSS3.
- **Exposure:** scikit-learn, NumPy, pandas, Matplotlib, Keras, SQL, Racket.

Technologies: Jupyter Notebook/Lab, Microsoft Office, Visual Studio Code, Git, GitHub, PyCharm, IntelliJ, WinSCP, Console/Terminal, LaTeX, VMWare.
Languages: Fluent in Spanish, Chinese (Cantonese), and proficient in French.

Work Experience

Sloan Student Fellow | Sloan Fellowship | University of Massachusetts Boston   **Jun. 2023 – Present**
- Commit to mentored research experience in Professor Funda Durupinar Babur's lab on the topics of artificial intelligence, computer graphics, and human-computer interaction.
- Created a Python script to automate the execution of FaceLandmarkVidMulti, an application from OpenFace, and extraction of .csv files containing eye gaze and head/neck rotation data from 6,000 videos from the provided dataset. This led to the merging of the extracted files into a .csv file, which is used as the training data for the generative model.
- Train a generative model for attention patterns linked to personality traits – the big five personality traits (OCEAN), using Keras.

Retail Sales Associate | Staples Inc. | Weymouth, MA   **Sep. 2020 – Sep. 2023**
- Interacted with several hundred customers weekly to provide excellent customer service in a fast-paced environment.
- Provided translation to customers who spoke only Spanish or Chinese, and met their needs effectively.
- Stocked and organized store merchandise, ensuring a comfortable and enjoyable shopping experience for customers.

Projects

NASA MUREP Innovation and Tech Transfer Idea Competition | Participant | Johnson Space Center, TX   **Aug. 2023 – Dec. 2023**
- Selected as a team of six to represent UMass Boston in the competition, featuring 10 teams nationwide.
- Researched 100+ NASA patents to design Sentinel, a tool to reduce time consumption in crime scene investigations. Explored tool capabilities and design, AI/ML applications, financial planning, market analysis, competitor analysis, and business timeline.
- Presented findings and project solutions to 200+ individuals on-stage, and received positive feedback from judges.

Personal Portfolio and Bible Quiz | HTML, CSS, and JavaScript | Personal Projects   **Jun. 2023**
- Created a personal portfolio website to showcase my projects and skills, using GitHub pages to host the website.
- Designed a Bible quiz website to learn more about front-end development and engage users in learning.

Neural Network Training with Keras | Python | University of Massachusetts Boston   **May 2023**
- Trained a neural network on 4000 train samples and 1000 test samples using Keras to evaluate collaborative performance among 20 chefs.
- Utilized a Sequential model to specify our neural network, training the model with 200 epochs and a batch size of 32.
- Achieved a prediction accuracy of 72% on test data and 68% on training data, while providing metric reporting of tasks completion and monetary gains/losses assessment.

Involvement

Session Runner | Computer Science Club | University of Massachusetts Boston   **Jan. 2022 – Present**
- Contributed to organizing a hackathon while leading a workshop on foundational machine learning concepts and guiding participants in building regression and classification models using scikit-learn.
- Assist in planning club activities and sessions to share information about computer science, career paths, and supplementary concepts beyond lectures.

Memberships and Awards
- NASA MITTIC Certificate   **Dec. 2023**
- 2023 Leadership Academy Certificate of Achievement   **Aug. 2023**
- Alpha Lambda Delta Honor Society   **May 2021**