

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 | Alpha Lambda Delta Honor Society | Dean's List

Relevant Coursework: Artificial Intelligence, Data Science, Software Engineering, Graphics, Probability & Statistics.

Certificates: NASA MITTIC Certificate, Python for Data Science, Build a ML Model Skill Path, BI Dashboards with Tableau, Learn SQL, Intro to Cloud Computing, 2023 Leadership Academy Certificate of Achievement, CareerSafe for IT.

Skills

Programming: Python (scikit-learn, Keras, NumPy, pandas, Matplotlib, Streamlit), Java (Spring Boot), C.

Web Development: JavaScript (WebGL, Three.js, XTK.js), HTML, CSS.

Database: SQL, Tableau

Technologies: Jupyter Notebook/Lab, Microsoft Office, Visual Studio Code, Git/GitHub, JetBrains IDEs, WinSCP, LaTeX, VMWare, MySQL.

Languages: Fluent in Spanish, Chinese (Cantonese), and proficient in French.

Work Experience

Sloan Research Fellow | Python - scikit-learn & Keras | University of Massachusetts Boston

Jun 2023 – Present

- Commit to mentored research experience in Professor Funda Durupinar Babur's VR lab on extracting facial landmarks relevant to personality and using these to animate the faces of 3D virtual characters.
- Automate OpenFace's FaceLandmarkVidMulti software to process 6,000 videos, extracting eye gaze and head/neck rotation data. This led to the merging of results into a unified .csv file, optimizing data preparation for model training.
- Train a generative model for attention patterns linked to personality traits – the big five personality traits (OCEAN), using scikit-learn and Keras.

Retail Sales Associate | Staples Inc. | Weymouth, MA

Sep 2020 – Sep. 2023

- Interacted with hundreds of customers weekly to provide excellent customer service in a fast-paced environment.
- Provided translation to customers who spoke only Spanish or Chinese, meeting their needs effectively.

Projects

NASA MITTIC | 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.
- Collaborated in researching from 300+ available 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, receiving 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 - scikit-learn & Keras | 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

Staff Member | 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.
- Assisted in planning club activities to share information about career paths and networking opportunities.