Haoran Xu

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EDUCATION

- Wesleyan University, Middletown, CT
- Bachelor's Degree, Double Major: Computer Science, Economics

Graduation: December 2024 **GPA:** 3.72/4.00

Relevant Courses: Applied Data Analysis, Quantitative Methods in Economics, Algorithms and Complexity, Computer Networks, Machine Learning Methods for Audio and Video Analysis, Software Engineering

SKILLS

- Primary Coding Languages: Python, R
- Secondary Coding Languages/Technologies: PHP, TensorFlow, JavaScript, OCaml, Bash, STATA, SML, C, HTML, CSS, Bootstrap, React, React Native, Node.js, Flask, SQL
- Data Analysis, Cleaning, Report Creation
- Delivering Presentations

WORK EXPERIENCES

Undergraduate Research Assistant

Wesleyan University

February 2023 – Present Middletown, CT

- Predicted node interactions and intermeeting time at a 65% accuracy rate to create a generalizable neural network and improve the feature set of a mobile network simulator using LSTMs and TensorFlow
- Generated, cleaned, and analyzed mobility model data to train neural networks using BonnMotion, shell scripts, and Python scripts
- Improved code modularity by overhauling function parameters using argparse and **kwargs, and by simplifying modules to have a more targeted purpose
- Reduced memory usage by rewriting RL agent training function to execute inside child processes
- Reduced process' memory leak by 25% using TensorFlow predict methods

Science Library Help Desk

Wesleyan University

August 2022 – Present

Middletown, CT

 Provided excellent customer service, basic IT support such as troubleshooting printer and network issues, and general administrative support

Course Assistant

Wesleyan University

August 2022 - May 2023, January 2024 - Present

Middletown, CT

- Graded coding assignments and provided thorough feedback on improving code efficiency, correctness, and syntax
- Hosted help sessions and answered questions on course material

PROJECTS

Water Dispenser Web App (in development)

January 2024 - Present

- Developing a web app for finding water dispensers at Wesleyan using React and React Bootstrap
- Implementing authentication tokens, limits on API requests, and ability to search dispensers by attributes
- Developed a RESTful API for water dispensers at Wesleyan using Express.js, SQL, and AWS

MyMusicList

October 2023 – November 2023

- Developed a basic Android app and web app for users to rate songs and share them with others using React Native, Expo, React, and React Bootstrap
- Created a RESTful API for rating songs using PHP, SQL, and XAMPP

Classification of Emotion in Human Speech

April 2023

 Trained a convolutional neural network to detect and classify emotions in speech using ResNet-34 and transfer learning

EXTRACURRICULARS

- Wesleyan Christian Fellowship, President
 - Created newsletters, flyers, and posters, organized group meetings, and managed club finances
- Wesleyan Computer Science and Coding Club, Member
 - o Collaborated with members to engage in learning opportunities and professional development events
- Wesleyan Kendo Club, Member