FuChun Hsieh

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Education

University of Wisconsin Madison — Madison, Wisconsin

B.S. in Computer Science & Mathematics; ***GPA: 3.92/4.00*** — *Sep 2023 – present*

Relative Coursework: Programming II & III, Machine Organization, Artificial Neural Networks, Calculus III, Linear Algebra, Discrete Mathematics

American University — Washington, D.C.

B.S. in Computer Science; ***GPA: 3.93/4.00*** — *Sep 2021 – June 2023*

Dean List

Relative Coursework: Calculus I & II, Discrete Structures, Computer Science I & II & III, Basic Statistics, Data Structures and Algorithms, Computer System Organization, Design and Organization of Programming Languages, Machine Learning / Cybersecurity

Skills

Programming Languages: C/C++, Java, Python

Techniques: Machine Learning, Feature Engineering

Languages: Mandarin, English

Experience

Taiwanese Student Association — Washington, D.C.

Event Coordinator — *2021 – 2023*

- Plan and execute cultural festivals, workshops, and social gatherings, catering to Taiwanese students and students who are interested in Taiwanese culture. Led a team of 5 committee members, fostering collaboration and delegating tasks to ensure the successful implementation of events.

Consult Your Community — Washington, D.C.

Consultant — *2022 – 2023*

- Meet and communicate with my bakery client to sketch out future business plans for her bakery. Conduct research about opportunities around D.C. to grow businesses and design possible commercial campaigns and events

American University Student Council — Washington, D.C.

Councilor — *2022 – 2023*

- Represent international students and L&S students to meet with the dean and provide critical feedback on college plans biweekly. Offer extra help to minorities, ex: first generation students, international students, and be the communication liaison between school and the student body

Projects

Deepfake Audio Reverse-Engineering | *GitHub*

- Using machine learning models like random forest, CNN, and XGBoost to classify converted audio to original audio then rebuild the audio. My biggest contribution is optimizing the CNN model that classify deepfake audio to its original audio to 82% accuracy

Wind Power Prediction | *GitHub*

- Develop and optimize CNN and LightGBM models to predict wind power generation, achieving 6th place on the public leaderboard and 8th place in the final results.

Audio Numbers Classification | *GitHub*

- Hnadcrafted a light KNN model to compare to another CNN model and optimize its classifying speed and accuracy, through techniques like PCA, and other feature engineering