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TAI'VEYON SHAW

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EDUCATION

Bellingham, WA **Western Washington University** **September 2019 – August 2023**

- **Major:** Data Science, B.S.
- **Certificate (Minor):** Mathematics and Japanese
- **Undergraduate Coursework:** Object Oriented Programming; Databases Systems; Algorithms & & Data Structures; Formal Language & Functional Programming; Machine Learning; Calculus; Deep Learning; Linear Algebra; Statistics; Differential Equations; Linear Optimization.

EMPLOYMENT

Web Developer, Work-Study **Western Washington University** **October 2021 – June 2023**

Enterprise Application Services

- Revamped legacy Unity forms by seamlessly transitioning them into OnBase form systems, aligning with the latest system requirements to adhere to Web Content Accessibility Guidelines(WCAG).
- Developed an automated script using Groovy and SQL, converting OnBase files to Excel format, enhancing productivity.
- Collaborated effectively within a cooperative work environment, participating in weekly meetings to provide updates on task progress and ensure seamless coordination among team members.

PROJECTS

Personal Website: www.taiveyonshaw.com (for additional information and projects)

Speaker Classification

- Engineered a robust system to preprocess .wav files into Mel spectrograms for optimal utilization in Convolutional Neural Networks (CNNs); improved audio recognition accuracy and enabled advanced audio analysis, enhancing the model's ability to classify and understand complex audio data.
- Implemented advanced normalization techniques, including cutting and padding, to handle variations in .wav file lengths during the spectrogram conversion process. This ensured uniform input shapes and maintained data integrity for subsequent CNN analysis.
- Leveraged the renowned VGG-16 architecture, a powerful Convolutional Neural Network, to facilitate effective feature extraction and classification, enhancing the system's ability to deliver accurate and reliable results.
- **Utilized**: PyTorch, Python, NumPy. Matplotlib, WandB

Christian Church Website (https://www.yicc.church/)

- Leveraging knowledge in responsive design techniques, the website maintains consistent functionality and visual appeal across desktops, laptops, tablets, and mobile phones.
- Understood the use of localstorage to save user preference for the website.
- Gained knowledge into the basics of Web Development and the use of how HTML, CSS and Javascript works together.
- **Utilized**: HTML, CSS, Javascript

SKILLS

Software: (proficient): Java, Python, HTML, CSS (familiar): C++, JavaScript, React, Matlab, SQL, Typescript, R