JAN KWONG

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EDUCATION

UC San Diego **La Jolla, CA** **Sep 2021 – Present**
Anticipated Graduation Date: Jun 2026
Major: Computer Science **Minor:** Cognitive Science
GPA: 3.8
Courses: Advanced Data Structures, Design and Analysis of Algorithms, Operating Systems, Software Engineering, Data Science in Practice, Computer Architecture, Theory of Computation, Computer Vision, Modern Cryptography

EXPERIENCE

UC San Diego **La Jolla, CA** **Apr 2024 – Dec 2024**
Computer Science Tutor
- Provided clarification and support to students enrolled in the "Theory of Computation" course during office hours
- Evaluated students' homework assignments and exams, offering detailed feedback to aid their understanding
- Participated in weekly staff meetings with the teaching team to discuss course progress and address challenges

UC San Diego LASR Lab **La Jolla, CA** **Jan 2024 – Dec 2024**
Undergraduate Research Assistant
- Co-author on a research project on the Acoustical Society of America focused on forced aligners and neural networks for phonetic recognition
- Conducted comprehensive literature reviews on automatic speech recognition models, such as Whisper by OpenAI and Wav2vec by Meta
- Implemented programs to compute word error rates for speech recognition outputs generated by Whisper

UC San Diego **La Jolla, CA** **Sep 2023 – Dec 2023**
Instructional Apprentice
- Assisted teaching assistants in hosting studio sessions for the "The Design of Everyday Things" course
- Evaluated student projects, providing constructive feedback to support their learning objectives
- Attended weekly meetings with the teaching team to assess course progress and identify areas for improvement

PROJECTS

Analysis of Pixar Movie Success **La Jolla, CA** **Sep 2024 – Dec 2024**
- Collaborated with a team of 4 members to analyze the influence of character types on Pixar movies revenue
- Performed data cleaning and exploratory data analysis to gain insights into the data of 28 Pixar movies
- Concluded the absence of a correlation between character types and box office using permutation testing

Streak-Based Developer Journal **La Jolla, CA** **Apr 2024 – Jun 2024**
- Collaborated with a team of 11 members through Agile practices, participating in daily stand-ups, sprint planning, and conducting retrospectives to ensure smooth and efficient project progress
- Developed the tagging feature using JavaScript, allowing users to organize journal entries effectively
- Contributed to end-to-end Puppeteer testing, improving the reliability and robustness of the application

Evaluation of Speech Recognition AI **La Jolla, CA** **Jan 2024 – Jun 2024**
- Evaluated the performance of OpenAI's Whisper against 75 human transcribers on a dataset of 300 English sentences spoken by 20 speakers with varying accents
- Discovered that sentence context differentially affected model and human performance
- Observed that humans outperformed models on isolated words, suggesting potential limitations in models' training data or acoustic context requirements
- Identified potential applications for using ASR to model human speech adaptability

SKILLS

- Python, Java, C, C++, JavaScript, HTML, CSS, ARM, SystemVerilog, Data Structures, and Algorithms
- Native/bilingual proficiency for Cantonese, English, and Mandarin; intermediate in Japanese