Zongdao Wen

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EDUCATION

Purdue University, *West Lafayette, IN*   August 2018-May 2022
Major: B.S. in Electrical Engineering; Minor: Japanese   **GPA: 3.59/4.0**

University of Southern California, *Los Angeles*   August 2022-May 2024
Major: M.S. in Electrical Engineering(Machine Learning and Data Science)   **GPA: 3.85/4.0**

Relevant Coursework: Signals and Systems, Python for Data Science (Spring 2022 Teaching Assistant), Electric and Magnetic Interactions
Coursera Certificate: Google UX Design *(Jul 2021-Sept 2021)*
Computer Skills: Python, SQL, HTML, C++, Cadence , Verilog, Assembly, MATLAB, Siemens NX, Figma
Awards & Honors: Proof of passing ABET exam, Dean's List Honoree *(Fall 2018-2019, Spring 2020, 2022)*
GitHub: https://github.com/louiswenz?tab=repositories

ENGINEERING EXPERIENCE

Heath Information Technology *Undergraduate Researcher*   August 2021-May 2022
• Front-end developer for multi-functional web-app dashboard designated for healthcare administration.
• Python UI library "Dash Plotly" , Google Firestore Database and Google API are used.
• Developed dashboard tracking nurses progress, distributing tasks, visualizing patient's health data, displaying scheduled appointments and computing risk score.

A Study on Brain-Computer Interfaces (BCIs), *Independent Researcher*   Jun 2021-January 2022
• Summarized comprehensive literature reviews with respect to the complexity of BCIs use.
• Systematically analyzed several databases involving fields of medicine, psychology, and the social sciences.
• Conducted in-depth analysis on four dimensions, namely the BCIs classification, decoder's algorithms & calibration, actual applications in rehabilitation, and future prospects.
• Concluded the findings that few researches put emphasis on user experience and human values in aspects of morality and ethics.
• Research paper currently under publication review (ICVARS 2022, Brisbane, Australia)

AI for Happiness, *Undergraduate Researcher,* Purdue University   Jan 2021-May 2021
• Developed a digital platform utilizing GPS data to detect users' abnormal behavior (etc. mental abnormality).
• Simulated users' GPS trace by applying 2-dimensional random walk algorithm.
• Devised clustering and color gradient solution to display data points and emphasis abnormalities.
• Designed user interface features with various display options using Folium and PyQt5Designer libraries.

ADDITIONAL EXPERIENCE

Key member, *Multicultural Division of ECE Student Union,* Purdue University   Aug 2019-May 2022
• Wrote activity schemes, then made task arrangements, and coordinated with other departments to ensure a smooth process, responsible for the final effect.
• Calculated the estimated budget and cost of college events, and sought sponsorship with selected proposals.

Mentor, *Producer Organization,* Purdue University   Aug 2019-May 2022
• Taught novice players basic skills of producing and recording music.
• Organized weekly group meetings in the studio to network or learn from other producers.

Media Editor, *Voice at Purdue,* Purdue University   Aug 2018-May2019
• Served as a liaison between administrators of the media organization and members, by means of spreading timely news on the international student community.
• Hosted a live house event in March 2019 with a touring band through advertising and communicating with the local bar.