

Daphne Wilkerson

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Summary

I am a highly self-motivated UI/UX designer and developer excited to find work in audio technology. I thrive best among teams that are similarly eager to craft meaningful and reliable music-making experiences.

Education

Stanford University

BS in Computer Science (Concentration in Human Computer Interaction), Minor in Music

GPA: 3.99

Coursework focus: team-based software development, group critique, design principles, music technology, technical writing, algorithm design, and usability testing

Stanford, CA

June 2023

Coronado High School

Valedictorian — GPA: 4.46

Distinction in Science, Yale Book Award, National Honor Society

Coronado School of the Arts, Piano Performance

Coronado, CA

June 2018

Experience

Independent Music Software Development

Released *LaunchCodes*, an audio production plugin for synthesizing explosive sounds, built and tested over a five month period

Leveraged the Juce framework to build an industry-standard product with original code

Designed an entirely unique and themed user interface with over 20 original GUI components and several modes of user interaction, prototyped in Figma

Integrated Faust audio processing language for novel DSP algorithms, and built custom envelope, LFO modulator, and synthesizer voice classes from scratch in C++

Profiled performance in several environments throughout production and dramatically optimized runtime

Designed a highly interactive website from scratch to host my work, accessible [here](#)

June 2023 – Present

Research in Interaction Design

Conducted research on touch gestures for audio-based interaction over several months with three co-researchers, involving ten participants and producing a paper on our findings (unpublished, available [here](#))

Oversaw design work of four high-fidelity mobile and web app prototypes in teams of four developers using React Native and Figma, in domains such as music education, music-sharing, and artificial intelligence

Won best overall app prototype in a design contest of over 50 group competitors

January 2022 – June 2023

Stanford Taiko – Artistic Director

Oversaw twice-weekly rehearsals for nationally respected Japanese drumming ensemble of 15 members

Managed minute-by-minute practice scheduling, communication with distinguished guest teachers and advisors, and preparation for 25th anniversary concert attended by over 600 people and featuring dozens of guest performers

Updated and maintained organization website with university domain access

September 2021 – June 2022

Skills

Programming & Design: C++, C, JavaScript, HTML/CSS, Python, Git, Illustrator, Figma

Music Experience

Music production (Ableton, Logic), studio recording

Composition: premiered string quartet, percussion trio, and won statewide contest with original work for piano

DSP algorithm design (ChuckK, Faust, Max, Web Audio, C++) and music visualization (Processing, C++)

Keyboard, guitar, ensemble drumming

Language Proficiency in French, German, and Japanese

Hobbies include fashion history, horror films, and gaming