BENJAMIN WESCHLER

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EDUCATION

University of California, Los Angeles   June 2024

Bachelor of Sciences — Aerospace Engineering, Astronautic Track: 3.6 GPA

ENGINEERING EXPERIENCE

SportVue LLC, Berkeley, CA   Sep. 2021 - March 2023

Founding Engineer (Full-Stack) and Software Lead

- Project manager of the SportVue cross-platform mobile application, which integrates with custom wearable hardware to track athlete data as a concussion prevention and training aid
- Lead the full-stack design & development of the SportVue mobile application using Flutter and Firebase
- Hired, trained, and managed a team of 3 front-end engineering interns
- Designed the user interface, including graphical design, typography, and user flow
- Validated efficacy of features and user interface through extensive user beta testing and customer interviews, rapidly iterating with a focus on improving ease-of-use and intuitiveness
- Collaborated with Google engineers to correct foundational performance issues in the Flutter rendering engine

Space Sciences Laboratory (SSL), UC Berkeley   June 2019 - Jan 2021

Research Intern

- Independently developed a neural network to identify intervals of magnetic reconnection, a space weather phenomenon that occurs in solar wind plasma, in data gathered by NASA satellites
- Automated the time-consuming, highly technical, and manual task of identifying relevant data, vastly increasing the rate at which research could take place
- Coordinated with 4 other SSL scientists to train and refine the neural network using data from NASA's Parker Solar Probe, THEMIS, and Magnetospheric Multiscale missions
- Co-authored a research abstract accepted at the AGU Fall Meeting that was among the 25% of accepted abstracts granted a lecture presentation

OTHER EXPERIENCE

Camp Kesem, UCLA   September 2021 - Present

Camp Counselor and Organizer

- Organized and fundraised year-round to run a free week-long summer camp for children affected by cancer
- Fostered a joyous experience for children undergoing extreme hardship amid a community of mutual support

Camp Tawonga, Stanislaus National Forest   Summers of 2021, 2022, and 2023

Camp Counselor — 10 Weeks per Summer

- Designed and lead daily programming and created an emotionally safe space for 4 cabins of 12 campers with the goal of building personal identity and self-esteem through intimate community building and connection with nature
- Collaborated with staff specializing in working with youth with special needs to care for campers on the autism spectrum and who were struggling with clinical anxiety, depression, and self-harm

SKILLS

PROGRAMMING LANGUAGES

Dart, JavaScript, GLSL, Python, C++, Java, MATLAB

OTHER TECHNOLOGY

Flutter, Firebase, Git and Github, ReactJS, Linux/Unix, SOLIDWORKS, TensorFLow/Keras, Fusion360, Photoshop