

SUNAY DAGLI

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Objective

Highly organized and solution-oriented undergraduate passionate about the intersection between software development and impact-driven fields such as sustainability. I am authorized to work as a U.S. citizen.

Education

University of California, Berkeley - College of Engineering **Expected May 2023**
B.S. Energy Engineering, Intended Double Major: B.S. Electrical Engineering & Computer Science (EECS)

Relevant Coursework:

- Structure and Interpretation of Computer Programs
- Data Structures
- Multivariable Calculus
- Designing Information Devices and Systems I & II
- Discrete Mathematics and Probability Theory
- Linear Algebra and Differential Equations
- Human Biological Variation
- Energy and Society

Experience

Software Engineering Intern, Lawrence Berkeley National Laboratory **May 2020 - Present**

- Worked in the HydroGEN Data Hub team to combine non-proprietary experimental and computational data on advanced water splitting materials into searchable materials data infrastructure
- Developed a Python and HTML based search platform and clean GUI using modern design principles to allow scientists to query a CKAN database to find and select data points intended, as well as upload or download data

Software Developer, Moev. Inc **May 2020 - August 2020**

- Developed electric vehicle charging infrastructure determining the most scalable and economically deployable options for charging EV fleets by parsing through existing data and inputting it into a custom algorithm optimized for efficiency and cost-effectiveness
- Presented algorithm to the company to use internally and for consumers, such as the Los Angeles Department of Transportation, in an effort to transition to more eco-friendly transportation cost-effectively.

Energy Engineering Intern, UCLA Smart Grid Energy Research Center **June 2018- September 2018**

- Remodeled and engineered a solar, wind, and battery-powered microgrid on Catalina Island, California
- Designed and developed a MATLAB Simulink simulation to determine the viability of the micro-grid to remove polluting diesel generators
- Established legitimacy for and improved the current state of energy-management; saved island time and resources
- Wrote a technical research paper and presented information to UCLA faculty and Ph.D. candidates

Projects

InGameStats - Seamless GUI for Tracking Basketball Statistics

- Created GUI for local recreation basketball league to determine best players and strategies to employ during the season
- Users input statistics based on each player and GUI determines which players are best at specific basketball plays
- Optimized GUI for older coaches through a clean, functional, and easy to use user interface

Website for Masked Heroes Initiative Nonprofit

- Created website using HTML, CSS, and JavaScript for an organization that has donated over 6000 masks through grassroots funding
- Manage it by updating maps on the site, writing and uploading blog articles, and update mask count and images

Skills

Languages: Python, Java, SQL, HTML, CSS, JavaScript, React, C

Platform/Tools: MATLAB, Pandas, NumPy, SciPy, Flask, Simulink, GUIs, IntelliJ, Eclipse, Git, Adobe Suite, Figma, Visual Studio Code, Microsoft Office Suite, LaTeX

Extracurriculars

Treasurer, Institute of Electrical and Electronics Engineers (IEEE) **August 2019 - Present**

- Managed and distributed \$25,000 of funds to IEEE student-run courses, events, and activities
- Drafted and presented financial summaries of organization's semesterly activities to the national branch of IEEE
- Supervised allocation of funds from the Associated Students of the University of California and Engineering Student Services

Mentor, Berkeley Engineers and Mentors (BEAM) **August 2019 - Present**

- Inspired and taught elementary-aged students through science experiments in an effort to provide equal STEM-education access to low-socioeconomic areas within Alameda County
- Customized lessons to allow students to learn seemingly advanced scientific concepts such as the importance of renewable energy