

SUNAY DAGLI

✉ sunaydagli@berkeley.edu
🌐 sunaydagli.com
in linkedin.com/in/sunaydagli/
📍 sunaydagli

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

Skills

LANGUAGES

Python
Java
C
SQL
JavaScript
HTML
CSS
RISC-V
R
x86

PLATFORMS/TOOLS

React
MATLAB
Simulink
Pandas
Numpy
SciPy
Flask
GUI
Figma
Protocol Buffers
CKAN
LaTeX
Jupyter
Keras
Adobe Suite
Microsoft Suite
Tensorflow
REST API
C3 AI Suite

Awards

Institute of Electrical and Electronics Engineers Power and Energy Society · 2021
IEEE Power and Energy Society Scholar
Southern California Edison · 2019
Howard P. Allen Scholarship
Indian American Heritage Foundation · 2019
Academic Scholarship

Education

University of California, Berkeley
Electrical Engineering & Computer Science 2023
Energy Engineering 2023
Relevant Coursework: Machine Learning, Data Structures, Designing Information Devices, Machine Structures & Computer Architecture, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Operating Systems and Systems Programming, Electric Power Systems

Aug. 2019 to Current

Employment

Google
Software Engineering Intern
Mountain View, CA
May 2022 to Aug. 2022

- Designed and implemented solutions to improve coverage and location for ride-share pickup points at airports for Google Geo customers
- Contributed to Java based API, edited ranking algorithm for points, and worked with servers and RPCs
- Complete development process including design docs, design reviews, and launching

Renewable & Appropriate Energy Laboratory - UC Berkeley
Undergraduate Research Assistant
Berkeley, CA
Jan. 2022 to Current

- Developing Python implementations on a linear programming model, SWITCH, to introduce marine and tidal energy capacity for electricity sector
- Co-author of abstracts and documents for creating interactive data inventory of blue economy industries in the United States

UC Berkeley Hybrid Systems Laboratory
Undergraduate Research Assistant
Berkeley, CA
Sept. 2021 to Jan. 2022

- Research on the project 'Navigating Autonomous Seaweed Growth Platforms by Leveraging Complex Ocean Currents'
- Utilize C3 AI platform to leverage complex ocean currents and machine learning to navigate solar-powered floating platforms for seaweed growth and carbon sequestration through open-sourced data, controllers, and path planning simulations

Google
Software Engineering (STEP) Intern
Remote
May 2021 to Aug. 2021

- Created internal command line interface bridging Google Cloud infrastructures to obtain data about virtual machines
- Implemented Java and SQL based tools as well as a front-end web UI for table visualizations with Junit and end-to-end testing
- Simplified workflow for engineers by centralizing and automating debugging tasks
- Completed entire development process, including writing design docs, implementation, design reviews, and launching

Lawrence Berkeley National Laboratory
Research Assistant
Berkeley, CA
May 2020 to May 2021

- Worked in the HydroGEN Data Hub team to combine non-proprietary experimental and computational data on advanced water splitting materials into searchable data infrastructure for 5 national laboratories and 30 funded projects
- Developed Python and web search platform, metadata parsers, and clean GUI using modern design principles to allow scientists to query a CKAN database to find and select data points and upload/download data; presented a poster of the project to faculty

Moev Inc.
Software Developer
Los Angeles, CA
May 2020 to Aug. 2020

- Established electric vehicle (EV) charging infrastructure determining the most scalable and economically deployable options for charging EV fleets by parsing through existing data and optimization algorithms on efficiency and cost-effectiveness
- Produced Python algorithm deliverables to use internally and for potential clients in an effort to transition to more eco-friendly transportation cost-effectively

Projects

InGameStats

- Created Java GUI for basketball leagues to input real-time statistics and determine the best players and strategies to employ
- Deployed in North County Basketball and Yorba Linda Basketball recreational leagues as an accessory for coaches

Website for Masked Heroes Initiative

- As Chief Technology Officer, developed a website using HTML, CSS, and JavaScript for a nonprofit that I helped establish
- Enabled donations of 30,000 masks through grassroots funding to combat COVID-19, featured by L.A. Times and congressmen

Activities

Institute of Electrical and Electronics Engineers (IEEE) Student Branch · President
May 2021 to Current

- Established and implemented overall IEEE visions, operations, and activities through leadership meetings, professional development events, research and company fairs, and team projects for over 200 general members
- Developed positive relations with University of California affiliated organizations and IEEE Nationals
- Assisted in management of two student-run courses: introductory robotics (Micromouse) and Hands-on PCB Design

Berkeley Engineers and Mentors · Mentor
Aug. 2019 to Current

- 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