

# SUNAY DAGLI

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Highly organized and solution-oriented master's student passionate about the intersection between software development and impact-driven fields. I am authorized to work as a U.S. citizen, and am looking for a full-time role for Fall 2024.

## Skills

### LANGUAGES

Python  
Java  
C  
SQL  
JavaScript  
HTML/XML  
CSS  
RISCV  
R  
x86

### PLATFORMS/TOOLS

React  
MATLAB  
Simulink  
Pandas  
Numpy  
SciPy  
Flask  
GUI  
Figma  
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 · Howard P. Allen Scholarship · 2019  
Indian American Heritage Foundation · Academic Scholarship · 2019

## Education

University of California, Berkeley Aug. 2023 to Current  
Electrical Engineering & Computer Science M.S. 2024  
Research Area: Energy, Deep Learning & Optimization Modeling  
University of California, Berkeley Aug. 2019 to May 2023  
Electrical Engineering & Computer Science B.S. 2023  
Energy Engineering B.S. 2023  
Relevant Coursework: Machine Learning, Databases, Computer Security, Data Structures, Designing Information Devices, Machine Structures & Computer Architecture, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Electric Power Systems

## Employment

Google Sunnyvale, CA  
Software Engineering M.S. Intern May 2023 to Current  
• Currently working in the Cloud Apps team

Google Mountain View, CA  
Software Engineering Intern 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 Berkeley, CA  
Undergraduate Research Assistant 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 deliverable reports for creating interactive data inventory of blue economy industries in the United States

UC Berkeley Hybrid Systems Laboratory Berkeley, CA  
Undergraduate Research Assistant 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 Remote  
Software Engineering (STEP) Intern 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 Berkeley, CA  
Research Assistant 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

## 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/JavaScript for a nonprofit that I helped establish  
• Enabled donations of 40,000 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 May 2022  
• 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