SUNAY DAGLI

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- in linkedin.com/in/sunaydagli/
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Highly organized and solutionoriented undergraduate passionate about the intersection between software development and impactdriven fields. I am authorized to work as a U.S. citizen.

Skills

LANGUAGES

Python Java C SQL JavaScript HTML CSS RISCV R

x86

PLATFORMS/TOOLS

React MATLAB Simulink Pandas Numpy SciPv Flask GUI Figma Protocol Buffers CKAN LaTeX Jupyter Bootstrap Adobe Suite Microsoft Suite Intelli J Eclipse PvCharm Visual Studio Code

C3 Al Suite

REST AP

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: Data Structures, Designing Information Devices, Machine Structures & Computer Architecture, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Operating Systems and Systems Programming, Electric Power Systems

Employment

UC Berkeley Hybrid Systems Laboratory

Undergraduate Research Assistant

- 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
 - 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

UC Berkeley Electrical Engineering & Computer Sciences (EECS) Academic Intern

Jan. 2021 to May 2021 ic runtimes, graph algorithms, counting and comparison sorts,

• Tutored about 50 students a week on topics such as asymptotic runtimes, graph algorithms, counting and comparison sorts, various data structures, and more while assisting in labs

Lawrence Berkeley National Laboratory Software Engineering Intern

- ftware Engineering Intern 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.

Los Angeles, CA

- Software Developer 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

 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

Publications

Technical Research Paper · UCLA Smart Grid Energy Research Center

June 2018 to Sept. 2018

Aug. 2019 to Current

Published and presented a technical research paper on my MatLab/Simulink simulation of a solar, wind, and battery-powered renewable microgrid on Catalina Island, California, to replace polluting diesel generators

Aug. 2019 to Current

Berkeley, CA

Remote

Berkeley, CA

Berkelev, CA

Sept. 2021 to Current

May 2021 to Aug. 2021