SUNAY DAGH

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sunaydagli

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.

Skills

LANGUAGES

Python

Java

SOL

JavaScript

HTML

CSS

RISCV

PLATFORMS/TOOLS

React

MATLAB

Simulink Pandas

Numpy

SciPv

Flask

Fiama Protocol Buffers

CKAN

LaTeX

Jupytei Bootstrap

Adobe Suite

Microsoft Suite

IntelliJ

Eclipse

PvCharm

Visual Studio Code

REST API

Awards

Southern California Edison · 2019 Howard P. Allen Scholarship

Indian American Heritage Foundation

2019 · Academic Scholarship

Education

University of California, Berkeley **Energy Engineering 2023**

Electrical Engineering & Computer Science 2023

Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Multivariable Calculus, Designing Information Devices/Systems, Linear Algebra and Differential Equations, Energy and Society, Great Ideas in Computer Architecture (Machine Structures), Efficient Algorithms and Intractable Problems, Introduction to Artificial Intelligence, Operating Systems and Systems Programming

Employment

Google

Remote

Aug. 2019 to Current

STFP 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, going through design reviews, and launching

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

Berkeley, CA lan. 2021 to May 2021

• 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

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 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

Produced Python algorithm deliverables to use internally and for potential clients, such as the Los Angeles Department of Transportation, in an effort to transition to more eco-friendly transportation cost-effectively

UCLA Smart Grid Energy Research Center

Energy Engineering Intern

Los Angeles, CA lune 2018 to Sept. 2018

- · Remodeled and engineered a solar, wind, and battery-powered microgrid on Catalina Island, California, using data from UCLA
- Designed and developed a MATLAB Simulink simulation to determine the viability of the microgrid to remove diesel generators · Established legitimacy for and improved the current state of energy-management; saved island time and resources

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 that donated over 30,000 masks through grassroots funding to combat COVID-19 spread, featured by L.A. Times and local 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 professional development events, research fairs, and team projects for over 100 general members
- Organized and led various leadership and general meetings
- 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

Institute of Electrical and Electronics Engineers (IEEE) Student Branch · Treasurer

Aug. 2019 to May 2021

- Managed and distributed \$25,000 of funds to IEEE student-run courses, events, and activities
- Prepared and presented financial summaries of the 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

Berkeley Engineers and Mentors · Mentor

Aug. 2019 to Current

 Inspired and taught elementary-aged students through science experiments in an effort to provide egual 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

Published a technical research paper on my developed renewable microgrid and presented to UCLA faculity and Ph.D. candidates