SUNAY DAGLI

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Education

University of California, Berkeley - College of Engineering **August 2023 - Current**
M.S. Electrical Engineering & Computer Sciences
- Research Area: Energy, Deep Learning & Optimization Modeling

University of California, Berkeley - College of Engineering **August 2019 - May 2023**
B.S. Electrical Engineering & Computer Sciences, B.S. Energy Engineering
- 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
- Extracurricular: Institute of Electrical and Electronics Engineers Student Branch (President), Berkeley Engineers and Mentors (Staff)

Experience

Software Engineering Intern, Google **May 2023 - Current**
- Working within the Google Cloud App team as an M.S. intern.

Undergraduate Research Assistant, Renewable and Appropriate Energy Laboratory **January 2022 - Current**
- Developing Python implementations for SWITCH, an economic and power capacity linear programming model at UC Berkeley. Focus areas include integrating marine and tidal energy capacity into the electricity sector.
- Co-authored deliverable reports for the U.S. Department of Energy aimed at establishing an interactive data inventory of blue economy industries within the United States.

Software Engineering Intern, Google **May 2022 - August 2022**
- Developed and executed innovative solutions to enhance coverage and optimize the location of ride-share pickup points at airports
- Collaborated on a Java-based API, refining the ranking algorithm for pickup points, and actively engaged with servers and RPCs.
- Orchestrated the entire development lifecycle, from crafting comprehensive design documentation and participating in design reviews to successfully launching the implemented solutions.

Undergraduate Research Assistant, Hybrid Systems Laboratory **September 2021 - January 2022**
- Utilized the C3 AI platform to harness complex ocean currents using machine learning techniques to develop autonomous navigation strategies for solar-powered floating platforms dedicated to carbon sequestration.
- Leveraged open-sourced data, controllers, and Python path-planning algorithms to advance research objectives and contribute to the project's success.

Software Engineering (STEP) Intern, Google **May 2021 - August 2021**
- Implemented an internal command line interface that effectively connected Google Cloud infrastructures to enable seamless retrieval of virtual machine data.
- Created Java and SQL-based tools, alongside a front-end web UI, to facilitate table visualizations, employing JUnit and end-to-end testing for optimal functionality.
- Streamlined workflow for engineers by centralizing and automating debugging tasks, resulting in improved efficiency and productivity.

Research Assistant, Lawrence Berkeley National Laboratory **May 2020 - May 2021**
- Worked within the HydroGEN Data Hub team to amalgamate non-proprietary experimental and computational data on advanced water-splitting materials.
- Led the development of a Python-based web search platform, including metadata parsers and a clean graphical user interface (GUI) adhering to modern design principles.
- Enabled scientists from 5 national laboratories and 30 funded projects to efficiently search and access relevant data points by implementing a CKAN database query system, facilitating data upload and download functionalities, presented a comprehensive poster of the project to faculty.

Projects

InGameStats - Seamless GUI for Tracking Basketball Statistics
- Created Java GUI for basketball leagues to input real-time statistics and determine the best strategies to employ; deployed in two premier leagues in Southern California with over 20+ coaches.

Website for Masked Heroes Initiative Nonprofit
- As Chief Technology Officer for a nonprofit, developed a website using HTML/CSS/JavaScript, which enabled donations of 40,000+ masks through grassroots funding to combat COVID-19, featured by L.A. Times and congressmen.

Skills

Languages/Packages: Python, Java, C, SQL, JavaScript, HTML/XML, CSS, R, TensorFlow, Pandas, NumPy, Angular.js, Keras, React, MATLAB, SciPy
Platforms/Tools: Figma, Jupyter, AWS, Google Cloud, Apache Spark, Github, Photoshop, ArcGIS, Agile, Microsoft Suite, Adobe Suite