



Education

UC Berkeley Electrical Engineering and Computer Science

(GPA 3.512)

2014 - present

Work Experience

Undergraduate Researcher at Berkeley Energy and Climate Institute

August 2017 - present

- ▶ Tested and modified inverter model code on Gridlab-d, an open-sourced c-based power grid modeling software

Android Software Engineering Intern at UI/UX department, Workday

June - August 2017

- ▶ Developed feature called Racetrack, which allows managers to track a team member's progress on a Workday task
- ▶ Implemented/tested the models, data extraction, animated progress bars, and activities for Racetrack on Android

Lab assistant for EE16B, Designing Information Devices and Systems II

September 2016 - April 2017

- ▶ Helped students debug and clean circuits and code they build for the labs in this electrical engineering class.

Backend developer at Mobility, Vehicles, and Electricity System Research Lab at LBNL

January - August 2016

- ▶ Developed and re-architected the backend of a mobile app called MyGreenCar, which records user trips and provides fuel/battery consumption metrics of that trip given a set of cars the user wants to simulate/compare.
- ▶ Used Docker to split up the backend from a single server to a multi-machine system. Separated functionality into the following containers: database, web-framework, broker, and worker.
- ▶ Sent larger jobs from web framework to numerous workers on the NERSC system (the supercomputer at LBNL) using Celery, Redis,
- ▶ Made in-team presentations and documentation on the new system architecture.

Projects

RoomFinder (Workday Intern/GW Hackathon)

July 2017

- ▶ Implemented a bot for slack that found free rooms in Workday from Microsoft Office.
- ▶ Handled API calls to Microsoft Office to find list of available rooms given a certain time, building and floor.

Sim Content Team (Virtual Reality Club at Berkeley)

October - December 2015

- ▶ Utilized Unity and the Oculus Rift to make a VR drunk driving simulator.
- ▶ Modified Unity standard asset scripts to create AI cars for the simulator.
- ▶ Utilized Autodesk Maya to create custom 3D assets and imported them to Unity.

FudFud - free food app (CalHacks 2.0)

October 2015

- ▶ Developed an Android App that finds free food events from Facebook.
- ▶ Used Graph API from Facebook and Android Studio
- ▶ Parsed through JSON files from Facebook to select and display certain events onto App.

Skills

- ▶ Python, Kotlin, Java, C, Android Studio, Git, Office 365 API, Django, Docker, Celery, Sql, Sbatch, SLURM, ipython, Unity, Spark, Nginx, Unicorn, Graph API (from Facebook), Cadence, Pico Pro, Gridlab-d

Relevant Coursework

Computational Photography (CS194-26) • (Operating Systems and Systems Programing (CS162) • Introduction to the Internet: Architecture and Protocols (CS168) • Microelectronic Devices and Circuits (EE105) • Introduction to Electric Power Systems (EE137A) • Efficient Algorithms and Intractable Problems (CS170) • Introduction to Database Systems (CS186) • Great Ideas in Computer Architecture (CS61C) • Energy and Society (Erg C100) • Designing Information Devices and Systems I & II (EE16A & EE16B) • Discrete Mathematics and Probability Theory (CS70) • Data Structures (CS61B) • Energy Engineering Seminar • Structure and Interpretation of Computer Programs (CS61A)