IRENE DEA

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EDUCATION

University of California, Berkeley Graduation: May 2018 (Expected)
B.A. Computer Science, Cumulative GPA: 3.89 / 4.00

- **CS61C (Computer Architecture) Teaching Staff** Spring 2017 - Present
- **Dean's Honors** Fall 2014, Spring 2015
- **Edward Frank Kraft Award** Fall 2014
- **Florence Riford Scholarship** Fall 2014 - Present

COURSE WORK

Computer Architecture · Algorithms · Operating Systems ·Artificial Intelligence · Data Structures · Designing Information Devices & Systems · Discrete Math & Probability · Linear Algebra
In Progress: Computer Security · Internet Architecture & Protocols · Natural Language Processing

EXPERIENCE

Databricks May 2017 - August 2017
Software Engineering Intern *San Francisco, CA*

- Architected and built several highly-requested notebook features and tools that optimize user workflow. [React, Backbone, Scala, HTML, CSS]
- Collected, analyzed, and presented notebook feature usage metrics to measure impact and decide what to build next. [Python, Scala, Spark, SQL]
- Won multiple prizes in company-wide hackathon (Popular Vote: 1st, Customer Impact & Shippability: 1st, Product-Training Team's Choice: 2nd) for two features, then productionized and shipped those features.

SPAWAR Systems Center Pacific May 2016 - August 2016
Software Engineering Intern *San Diego, CA*

- Designed and built nanosatellite emulation device for low-cost and efficient nanosatellite payload testing. [Python]
- Wrote a script that calculates nanosatellite orbital data, power estimates, and generates graphs for analysis. [Python]
- Contributed to a paper for Small Satellite Conference, User Manual, Interface Control Document.

SPAWAR Systems Center Pacific May 2015 - August 2015
Engineering Intern *San Diego, CA*

- Designed, built, evaluated microbial fuel cell systems with various pumping and microbial metabolic stimulation methods.

SKILLS

Languages: Python · Java · C · Javascript · Scala · HTML · CSS · SQL
Technologies: React · Git · Spark · jQuery · Backbone

PROJECTS

SHIP

- Allows users to suggest new friendships between their second-degree Facebook friends. [React, Ruby on Rails, WebSockets, HTML, CSS, Facebook Login API]
- If the suggested friends approve ("ship") the introduction, they can begin chatting on SHIP and decide if they want to become Facebook friends.

Nanosatellite Communication Scheduling Algorithm

- Contributed to a scheduling algorithm for satellites to send packets to ground stations. [Python, Systems Tool Kit API]
- Devised and implemented an algorithm to determine a satellite's power given its orbital state vector.

INTERESTS

Drawing · Painting · Badminton · Design · Teaching