

Edward Sa

<https://edward-sa.github.io/> | <https://www.linkedin.com/in/edwardbsa/> | edward.sa@berkeley.edu | (972) 971-2639

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. Computer Science

Aug 2016 – Dec 2019

Relevant Coursework: Algorithms, Artificial Intelligence, Data Structures, Discrete Math, Probability Theory, Computer Architecture, Data Science, User Interfaces, Designing Info Systems, Linear Algebra, Multivariable Calculus

EXPERIENCE AND ACTIVITIES

Toyota Connected

Plano, TX

Software Engineering Intern

May 2018 - Aug 2018

- Built full stack application to simulate sending car telemetry to Kafka under mobility services topic
- Enabled Toyota Connected to not need to drive real-time vehicles to test applications in development

UC Berkeley EECS Department

Berkeley, CA

Tutor

Sept 2017 - Dec 2017

- Taught multiple sections weekly for students in introductory CS course (CS61A)
- Wrote practice material, ran review sections, graded exams and projects, and assisted in office hours

Pearl Technology Holdings

Plano, TX

Intern

May 2017 - June 2017

- Wrote SQL queries to check data integrity, setting email alerts while running queries
- QA tested applications and compiled error reports and tickets for developers to see

Canon Ideathon at Stanford

Palo Alto, CA

First Place Winner

March 2018

- Proposed a new product to Canon and VC representatives to boost sales in digital cameras
- Designed app prototype and helped with market analysis, slide decking, and pitching

PROJECTS

League of Legends Analytics | Data Science and Web Scraping

Github: <https://git.io/fNXY8>

- Scraped data off of the web using the BeautifulSoup Python package, storing and organizing data
- Using Pandas, NumPy, and SKlearn, modeled data with linear regression, SVM, and KNN to predict game statistics and role, visualized in Jupyter Notebook

Personal and Staff Website | Full Stack

Github: <https://git.io/fNXY0>

- Created personal website using HTML/CSS/Bootstrap/jQuery
- Created personal course website using Node.js/Express.js and HTML/CSS/Bootstrap, deployed through Heroku

VeriHype | iOS

Github: <https://git.io/fNXrB>

- Developed interactive game app that lets users compete in their knowledge of popular clothing brands
- Worked with KolodaView class to implement Tinder like cards with swipe functionality
- Integrated Google's Firebase API to utilize Firebases's user storage and database features

Gitlet | Backend

Private Repo

- Designed and built a mini version of Git using Java, tested with JUnit
- Allows users to work in a version control system, using the command line to save or restore files, operate in multiple branches, merge changes, and more

Hunger | Backend

Private Repo

- Built a Facebook Messenger bot that matches user with best restaurant based on three criteria
- Used Facebook API to integrate webhook with Node.js
- Wrote algorithm using k-means clustering combined with a regression algorithm to match user with most fit restaurant

SKILLS AND INTERESTS

Languages: Python, Java, JavaScript, Elixir, SQL, C, Swift, HTML, CSS

Frameworks/Technologies: Ember.js, Node.js, Express.js, PostgreSQL, Phoenix, Git, Unix, Scrum

Interests: Film, Video editing, Basketball, Working out, Esports, Violin