BRANDON DAVID

brandonhudavid@berkeley.edu | (562) 650-3700
2161 Allston Way #413 Berkeley, CA 94704
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https://brandonhudavid.com
https://www.github.com/brandonhudavid
https://www.linkedin.com/in/brandonhudavid

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. Electrical Engineering & Computer Science
Expected Graduation - May 2021
Technical GPA: 3.6

RELEVANT COURSEWORK

[intended] Machine Learning
[intended] Databases
- Advanced Algorithms
- Data Structures
- React Development
- iOS Development
- UI Design & Development
- Optimization Models
- Artificial Intelligence
- Computer Security
- Computer Architecture
- Discrete Math & Probability
- Linear Algebra & Circuits
- Multivariable Calculus

SKILLS

FRONTEND

- **React, Redux, JavaScript, HTML, CSS**

CODING

- **Python, Swift, Java, C, Scheme, Ruby**

OTHER

- **Android Studio, Firebase, SQL, MongoDB, Node, Spark, MapReduce, Assembly, Adobe Creative Cloud, Figma**

EXPERIENCE

SOFTWARE ENGINEER INTERN
JUNE 2019 - AUGUST 2019
OPTIMIZELY

- Implemented frontend changes in customer-facing React web application to account for vertical expansion.
- Created design docs, implemented idiomatic methods for JavaScript, Python, Ruby SDKs of A/B testing product.
- Improved security in Swift SDK by implementing SSL pinning with URLSession delegates to prevent MITM attacks.

RESEARCH ENGINEER INTERN
JUNE 2018 - AUGUST 2018
HERE TECHNOLOGIES

- Developed tools utilized by PhD computer vision researchers and autonomous vehicles to visualize road features.
- Improved graph generation runtime by 95% by refactoring Python codebase with PyPy to optimize algorithm performance.
- Collaborated with Chicago office to aggregate LiDAR sensor data with panoramic highway photos.

DESIGN LEAD
iOS DEVELOPER
AUGUST 2018 - PRESENT
MOBILE DEVELOPERS OF BERKELEY

- Leading team of 5 designers to provide design consultation for product teams, create branding guide for marketing events.
- Created mobile application for Ford's UAV department to facilitate management of drone flights.

ACADEMIC INTERN
JANUARY 2018 - MAY 2018
UC BERKELEY CS DEPARTMENT

- Assisted UC Berkeley computer science students in introductory computer science course about Python, SQL, Scheme.
- Facilitated sections and office hours with teaching assistants.

PROJECTS

SIX STRINGS
AUGUST 2019 - PRESENT
https://github.com/brandonhudavid/six-strings

React and Redux web application that tracks progress of guitar songs I am learning.

- Implemented CRUD API to create new song entries, update song progress, and delete songs from website.
- Used Material-UI to show song entries in tabular format, reveal modals for user input.

STRANGLER
JULY 2019 - AUGUST 2019
https://github.com/brandonhudavid/strangler

Python script that advises calculated stock option strangles by retrieving data from companies' past earnings reports.

- Referenced NASDAQ earnings analysis to determine fiscal quarter ends and earnings report dates.
- Utilized Alpha Vantage's stock history API to retrieve open and close prices of stocks in previous quarters.

ENGAGE
SEPTEMBER 2018 - DECEMBER 2018
https://brandonhudavid.com/#/engage

Cross-platform mobile application that facilitates discussion between students and instructors in the classroom.

- Collaborated in a team of 5 developers to create app on iOS and Android platforms.
- Used Firebase backend to store data for teachers' sections and users' sessions.

SAFELY
MARCH 2018 - MAY 2018
https://brandonhudavid.com/#/safely

iOS application helping users travel safely to destinations.

- Referenced Berkeley Police Department's crime activity dataset to determine and avoid dangerous routes.
- Used HERE Technologies's routing API to route users to destination with safest path possible.