BRANDON DAVID

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. Electrical Engineering & Computer Science
Expected Graduation - December 2020
Technical GPA: 3.407

RELEVANT COURSEWORK

- *Advanced Algorithms*
- *Data Structures*
- *React Development*
- *Database Systems*
- *UI Design & Development*
- *Internet Architecture*
- *iOS Development*
- *Artificial Intelligence*
- *Convex Optimization*
- *Computer Security*
- *Computer Architecture*
- *Discrete Math & Probability*
- *Linear Algebra*
- *Multivariable Calculus*

SKILLS

FRONTEND

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

CODING

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

OTHER

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

EXPERIENCE

WEB DEVELOPER
STUDENT INSTRUCTOR
INNOVATIVE DESIGN

SEPTEMBER 2017 - MAY 2020

- Developed and designed React and Redux components with team of 6 developers for websites of Bay Area clients.
- Led weekly Introduction to Adobe Photoshop and Illustrator class of 30 students with no prior experience in digital design.

SOFTWARE ENGINEER INTERN
OPTIMIZELY

JUNE 2019 - AUGUST 2019

- Implemented frontend changes in customer-facing React web application for customer onboarding and code samples.
- 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
HERE TECHNOLOGIES

JUNE 2018 - AUGUST 2018

- 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
MOBILE DEVELOPERS OF BERKELEY

AUGUST 2018 - DECEMBER 2019

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

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.

STOCK OPTION MANAGER
JULY 2019 - AUGUST 2019
https://github.com/brandonhudavid/strangler

Python script that advises stock option strategies 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.