

BRANDON DAVID

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. Electrical Engineering & Computer Science

Graduated 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

LANGUAGES

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

OTHER

- SQL, Android Studio, Firebase, MongoDB, Node, Spark, MapReduce, Docker, Travis, Jenkins, Gherkin, Swagger, Assembly, Adobe Creative Cloud, Figma

PROJECTS

SIX STRINGS

AUGUST 2019 - JANUARY 2020

<https://github.com/brandonhudavid/six-strings>

React and Redux web application that tracks progress of guitar songs learned.

- 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.

EXPERIENCE

SOFTWARE ENGINEER INTERN

JUNE 2019 - AUGUST 2019

OPTIMIZEZLY

- 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

JUNE 2018 - AUGUST 2018

HERE TECHNOLOGIES

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

WEB DEVELOPER

SEPTEMBER 2017 - MAY 2020

STUDENT INSTRUCTOR

INNOVATIVE DESIGN (STUDENT ORG.)

- 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.

DESIGN LEAD

AUGUST 2018 - DECEMBER 2019

MOBILE DEVELOPERS OF BERKELEY (STUDENT ORG.)

- 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.

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 design and develop app on iOS and Android platforms.
- Used Firebase backend to store data for Berkeley professors and classroom sections.

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.