

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
- Database Systems
- Data Structures
- Computer Architecture
- React Development
- Artificial Intelligence
- UI Design & Development
- Convex Optimization
- iOS Development
- Discrete Math & Probability

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

TWITCH TWEETS

DECEMBER 2021 - PRESENT

<https://github.com/brandonhudavid/twitch-tweets>

React web game that fetches Twitter data to assess knowledge of famous YouTube and Twitch live streamers.

- Implemented Twitter API to dynamically feature 40+ embedded Tweets from 8 renowned streamers.
- Created logo, frontend layout, game logic played and viewed by 50,000+ users.

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

WEB OPTIMIZATION DEVELOPER

MARCH 2021 - PRESENT

ADOBE

- Apply frontend JavaScript to deploy A/B tests across Adobe.com.

SOFTWARE ENGINEER INTERN

JUNE 2019 - AUGUST 2019

OPTIMIZEZY

- 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 PhD computer vision research tools to enable autonomous vehicle visualization of 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.

ENGAGE

SEPTEMBER 2018 - DECEMBER 2018

<https://brandonhudavid.com/#/engage>

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

- Developed and designed iOS and Android versions through collaboration in team of 5 developers.
- Established 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.