BRIAN (BORHAN) RAFIQ

UC Berkeley Computer Science Undergraduate

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EDUCATION

Bachelor's Degree, Computer Science

University of California, Berkeley **GPA: 3.58 / 4**

📅 August 2017 — May 2021 ⚲ Berkeley, CA

- Awarded UC Berkeley Undergraduate Scholarship.
- **Previous Coursework:** Data Structures (CS61B), Discrete Math & Probability Theory (CS70), Interpreters (CS61A), Linear Algebra (MATH 54), Designing Information Devices & Systems (EE16B).
- **Current Coursework:** Computer Architecture & Machine Structures (CS61C), Artificial Intelligence (CS188), Principles & Techniques of Data Science (CS100).

EXPERIENCE

Software Engineer Intern

JAFA (Just A Fan's Analysis)

📅 May 2019 — August 2019 ⚲ London, United Kingdom

- Completed backend of a dashboard web app in JavaScript that uses Axios to fetch, manipulate, and render user engagement data from the company's data analytics platform using the Amplitude REST API.
- Developed frontend of dashboard using Bootstrap and Next.JS while working in JavaScript & JSX while working with Head of Design to fit company's design vision.
- Implemented key features in company's main product (social media app), including liking/disliking capabilities on article posts as well as links to category-specific news feeds via a user's following page.

Data Structures & Algorithms Academic Intern

UC Berkeley EECS Department

📅 Aug 2018 — December 2018 ⚲ Berkeley, CA

- Instructed weekly labs and office hours, guiding with students on homework, lab assignments, and projects from Data Structures and Algorithms (CS61B) course.
- Committed 5+ hours per week while sacrificing personal work time to teach students key concepts, debugging skills, and approaches to complex coding/algorithm problems.

Strategy Intern

Engage3

📅 May 2018 — Aug 2018 ⚲ Davis, CA

- Designed an API to integrate company's software development platform, Assembla, and its customer support software, Freshdesk.
- Discovered a better alternative for a product management platform called ProofHub, and led entire company through a migration from its former platform, Basecamp, to Proofhub, which Engage3 now uses.

SKILLS

Python, Java, JavaScript, Unix, C, HTML, CSS, SQL, NumPy, Pandas, REST APIs, Git, GitHub, React, React Native

PROJECTS

Dashboard Web App

JavaScript, React, Promises, Axios, Bootstrap

- Dashboard solution rendering a company's app or website analytics, social media following, and a live twitter feed.

Mandelbrot Fractal Zoomer

C, OOP, GUI, unit & integration testing, command line parsing

- Complex number object handling to generate and zoom through Mandelbrot Fractals using the Mandelbrot function.

To-Do List App

JavaScript, React Native

- To-do list iOS/Android app with a sleek UI for everyday task management.

BearMaps

Java, A* graph traversal, OpenStreetMap API, image rasterizing

- Google Maps inspired navigation program specific to the Berkeley community.

Scheme Interpreter

Python, Read–Eval–Print Loop (REPL), command line parsing, exception handling

- Interpreter for a subset of the Scheme functional programming language.

Maze Game

Java, GUI, Model-View-Controller

- Interactive multiplayer maze game through pseudo-random world generation via the user's inputted seed.