

# Ahmed Baqai

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## EDUCATION

### UC Berkeley

Computer Science  
2019 - 2023 | Berkeley, CA

## LINKS

**LinkedIn:** <https://www.linkedin.com/in/ahmedbaqai/>

**GitHub:** [github.com/abaqai](https://github.com/abaqai)

**Personal Website:** [ahmedbaqai.com](https://ahmedbaqai.com)

## SKILLS

**LANGUAGES** Python | Java | C | SQL | JS | RISC-V | Scala | Scheme

**LIBRARIES** NumPy | Sklearn | Pandas | Seaborn | Matplotlib | ReactJS

**OTHER** Docker | AWS (S3, Lambda, Dynamo, RDS) | Jupyter | CAD | Git | GDB | EDA

## COURSEWORK

**MATH 53** | Multivariable Calculus

**EE 16A/B** | Device Information and Systems

**CS 61A/B/C** | Programs, Data Structures, Architecture

**CS 70** | Discrete Math and Probability

**CS 170** | Efficient Algorithms and Intractable Problems

**DATA 100** | Principles & Techniques of Data Science

**CS 186** | Introduction to Database Systems

**CS 188** | Intro to AI

**DATA 140** | Probability for Data Science

**INFO 253** | Backend Architecture

**CS 161** | Computer Security

**CS 189** | Machine Learning

## ACADEMIA ROLES

### Tutor & Academic Intern | CS61B/A

Collaborated with head TA's to establish labs and discussion curriculum. Assisted students in projects central around OOP, Data Structures and Algorithms.

### Berkeley CS Mentors | CS61A

Instructed CS review sessions for UC Berkeley starting CS students.

### Robot Director | The Tech Museum

Operated and revamped Buster (robot) by improving movement dynamics. Robot interactivity maximized museum attendance and influenced children to follow the STEM pathway.

### FIRST Robotics

First Lego League Mentor, First Tech Challenge hardware lead, First Robotics Challenge pit lead.

## EXPERIENCE

### Zocdoc | Backend Engineer Intern

June 2021 - September 2021 | New York City, NY

- Designed (tech spec) and created FE (ReactJS) & BE (Scala, SQL) for CostPlan Tool, a service for Business Operations to make pricing model changes in the codebase independent of the engineering wing.

### HelloFresh | Fullstack SWE Intern

June 2020 - August 2020 | New York City, NY

- Developed tech spec & V1 of new microservice (Go, Docker) aimed to authenticate (through email domains) frontline workers for new discounts.
- Enhanced user flow and design on HelloFresh's FE Plans page. Experiment increased customer conversion rate by ~5%.

### ClearSkye | ML and Data Analysis Consultant

January 2021 - May 2021 | Berkeley, CA

- Constructed ML pipeline (pandas, Sklearn), for ClearSkye's IAM product, trained to accept or deny access roles based on user account metadata
- Pipeline also contained logical rules to identify red flags between future account and access role mappings.

### Sea Warden | Software Engineer Contractor

August 2020 - May 2021 | Berkeley, CA

- Constructed backend architecture for customer data dashboard (python, AWS lambda). Pipelined AWS dynamo data into downloadable CSVs.
- Lead team to create Twilio chatbot for client-company relations.

### Berkeley Codeology | Technical Director

August 2019 - Present | Berkeley, CA

- Managing a team of Project Managers and Project Leaders to host 4 insightful [projects](#) for club members.
- My previous projects include 1) algorithm creation (Pandas, NumPy) for *The Music Connection* (organization) to match students to tutors accounting for timing, instrument, level etc., 2) Club website revamp (ReactJS, AdobeXD), 3) Server-Client app (HTML, Flask, Python) that creates an event schedule based on user metadata.

### Altia Systems | (Acquired by Jabra) Video Analysis and Product Automation Intern

July 2017 - August 2017 | Cupertino, CA

- Designed/CADed (SolidWorks) a testing rig for prior deployment configuration of PanaCast 2 camera lenses.
- Conducted tests with Altia's facial recognition software to analyze effects of inhibiting variables (facial coverage, distance, lighting, etc.). My feedback report was used to plan improvements for V2 of PanaCast 2.

### McBride Sisters | Data Science Consultant

September 2020 - December 2020 | Oakland, CA

- Applied ML techniques on customer-product relationships to develop mappings between user demographics and product preferences.