

# Eldar Hasanov

Berkeley, CA | +1(510)916-9991 | [linkedin.com/in/eldar-hasanov/](https://www.linkedin.com/in/eldar-hasanov/) | [github.com/eldarhasanov079/](https://github.com/eldarhasanov079/)

## EDUCATION

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### University of California, Berkeley

*Bachelor of Arts in Computer Science*

Berkeley, CA

*Expected May 2025*

- **Cumulative GPA:** 3.6/4.0
- **Relevant coursework:** CS 170 Efficient Algorithms and Intractable Problems, CS 161 Computer Security, CS 188 Introduction to Artificial Intelligence, CS61A Structure and Interpretation of Computer Programs, CS61B Data Structures and Algorithms, CS61C Great Ideas of Computer Architecture (Machine Structures), CS 70 Discrete Mathematics and Probability Theory, CS 294 Designing Computerized STAR Assessments, DATA C8 Foundations of Data Science, CS 194 Web Development, EECS 16A Designing Information Devices and Systems

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, Go, C, HTML/CSS, JavaScript, SQL, Solidity

**Frameworks/Libraries:** Node.js, Express.js, React, Flask, Pandas, JUnit Testing, Tensorflow, OpenMP.

**Developer Tools:** Git, Vim, Docker, GDB, Valgrind, Jupyter Notebook, Linux, Windows, MacOS.

## EXPERIENCE

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### 1PR Brands

*Software Engineering Intern*

August 2023 – February 2024

*New York City, NY (Remote)*

- Developed software for music creators assisting them with professional, financial, and marketing decisions.
- Engineered the backend logic in Node.js and Spotify API as well as assisted the development of React frontend.
- Utilized a variety of music data APIs and performed in-depth quantitative analysis to create custom databases.

### Anthems Inc.

*Computer Science Intern*

February 2023 – July 2023

*San Francisco, CA (Hybrid)*

- Researched and analyzed the performance of multiple blockchains for both dynamic and NFT implementation.
- Developed dynamic smart contracts in Solidity and Cadence on different chains such as ETH, Flow, and Polygon.
- Lowered the average transaction fee by 35% by optimizing the on-chain functions within the smart contract.

### Lawrence Space Sciences Laboratory

*Machine Learning Research Assistant*

October 2021 – April 2022

*Berkeley, CA*

- Worked research, analyzing interstellar dust using machine learning algorithms on Python and TensorFlow.
- Used PCA and modeling to improve the efficiency of existing auto-grader, as well as build new testing software.
- Filtered and optimized training data for convolutional neural network, as well as, visualized results for presentation.

## PROJECTS

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### Secure File Sharing System | Go, Encryption, Security

Spring 2024

- Developed a fully secure file-sharing system in Go with the ability to detect attacks on a vulnerable database
- Utilized such security concepts as Symmetric and Asymmetric (RSA) encryptions, MACs, Digital Signatures, etc.

### ClubHub | Typescript, React, Supabase DB

Fall 2023

- Built a fully functioning full-stack web app in a team of 4 working as a part of CalHacks 10.0 Hackathon.
- The project allows users (college students) to browse, subscribe for updates, apply and rate clubs at UC Berkeley.

### Build Your Own World | Java, Algorithms, OOP

Fall 2022

- Built a 2D world-generating engine in Java by utilizing graphs, hash-maps, rendering, and A\* algorithm, allowing complex interactions, such as the ability to move, load/save mechanism, enemies following path algorithms, etc.

## EXTRACURRICULAR

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### Computer Science Mentors | Mentor

- Fall 2023 Junior Mentor: helping students by teaching small tutoring sections on algorithms and data structures.
- Spring 2024 Senior Mentor: leading a group of 4 Junior Mentors in addition to teaching 2 tutoring sections (5 students) and content review sessions (100+ students), interviewing and selecting incoming Junior Mentors

**Azerbaijanis at Berkeley (UC Berkeley Organization)** - Co-Founder, President for 2023-2024 Academic Year.

**STAR Mastery Learning** - Research member building specific, tagged, auto-gradable, randomized CS assessments.