

# Eden Obeng Kyei

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## EDUCATION

California Institute of Technology

June 2026

Major: Computer Science with Minor in Information and Data Science

GPA: 3.6/4.0

**Relevant Coursework and Skills:** Data Structures and Algorithms (Java), Software Design (C), Decidability and Tractability, Computing Systems, Differential Equations, Relational Databases (SQL), Machine Learning and Data Mining, Web Development, Algorithms, Public Speaking, Microsoft Office, Adobe Suite, Data Science/Analytics, CUDA,

**Programming Languages:** Python (PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib, Keras), C, Java, SQL, Javascript, JSON, HTML/CSS.

## WORK EXPERIENCE

**Co-Founder | String (Startup)**

Mar 2023 - Present

- Created a front-end interface using HTML/CSS/JS to establish a virtual connection between coffee producers and buyers to optimize the supply chain with higher convenience and transparency.
- Built the technology to handle online and offline features such as payments, credit building, and investing.
- Collaborated in a group to use blockchain technology, Python, and Machine Learning to create a “middleman” for both groups in the coffee supply industry.

**Entrepreneurship Intern | Caltech's Technology Transfer and Corporate Partnerships**

June 2023 - Sept 2023

- Working on project String- using blockchain technology, Python, and Machine Learning to create a “middleman” for producers and buyers in the coffee supply industry.
- Worked in attaining market research on the development of investment memos, customer discovery, and financial modeling.
- Presented results and weekly progress to the Caltech OTTCP to mentor for guidance in meetings.
- Connected with various coffee suppliers to receive feedback and improve the technology to incorporate their requests and long-term goals.

**Junior Software Development Engineer | Bismuth Tech. (Startup), Ghana**

Nov. 2021- Aug. 2022

- Junior Python developer designing and assisted in backed development.
- Wrote search engine codes with Python to search for YouTube-related texts. Built speech-to-text API tool using tiny whisper open source into a different framework.
- Collaborated to build incubated products land page websites, serving as PM.

## PROJECTS

- MAMBA Game | CS3:** Created a multiplayer game with powerups and user options based on the original “Tag Game” using keyboard functionality and a physics engine in C language. <https://eobengky.github.io/Mamba/>
- Kaggle Competition in Machine Learning | CS155:** Used data from a telecom company to predict whether a customer will discontinue the service, using the NeuroNet model.
- Moviesdb | CS121:** Created an admin and client side for a social movies and tv-shows application using SQL and data from Kaggle's dataset.

## LEADERSHIP EXPERIENCE

**Math 0 Teaching Assistant, Caltech**

May 2024 - Present

- Graded assignments while providing constructive feedback to students.

**President, Caltech Black Student Union**

April 2024 - Present

- Organized school-wide events with 200+ attendees at times and led group discussions on identity, community, and race.
- Facilitated and led weekly meetings and oversaw the leadership team's completion of weekly tasks.
- Worked with outreach to acquire funding and support from companies and alumni.
- Develop and maintain the Caltech BSU website.

**RISE Program Tutor, Caltech Y**

February 2024 – Present

- Tutor middle school and high school students through homework help or academic guidance.
- Help students gain greater competency in math and science foundations and serve as an academic mentor.

## ACTIVITIES AND AWARDS

National Science and Math Quiz Champion (Ghana, 2021) [https://youtu.be/-qBf0KsTd\\_0](https://youtu.be/-qBf0KsTd_0) | Bill Gross Prize For Entrepreneurship 2024 Finalist (String Project) | Timothy D. Ryan Grant Recipient | TechElevate Member | National Society of Black Engineers Member | CS Careers @ CIT Member | Caltech Entrepreneur Club Member | Caltech Intermural Soccer Club Member