

# Samuel Elijah Edwards

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## EDUCATION

### University of California, Berkeley

B.A. Data Science | *College of Letters and Sciences*

Expected Graduation: May 2024

**Relevant Coursework:** Data Structures, Data Mining & Analytics, Data Inferences and Decisions, Principles & Techniques of Data Science, Probability & Mathematical Statistics in Data Science, Linear Algebra and Differential Equations

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## PROFESSIONAL EXPERIENCE

### University of California, Berkeley

*Student Library Work Leader*

Berkeley, CA

Jun 2022 - Present

- Managed circulation of over 40 million books using a library management system and communicating with universities across the country.
- Assisted an average of 50 patrons daily with questions and concerns about library operations and providing solutions to patrons.
- Organized employees during shifts and delegated tasks to ensure proper and efficient library operations by utilizing knowledge from specialized training.

### University of California, Berkeley

*Primary Education STEM Instructor*

Berkeley, CA

May 2022 – Sept 2022

- Developed personalized educational plans to address each student's unique learning needs, goals, and challenges.
- Tracked and documented students' progress, identifying areas of improvement and implemented strategies to address academic weaknesses.
- Participated in professional development workshops and training sessions to stay updated on the latest teaching techniques and STEM advancements.

### Self-Employed Mathematics Tutoring Services

*Founder/Instructor*

San Francisco, CA

Nov 2018 - Jan 2019

- Instructed adult students in high-school-level mathematics and developed educational plans to prepare them to take the GED Exam.
- Coordinated time and location scheduling with clients and ensured participation through phone call reminders and daily e-mails.
- Administered practice GED exams to students bi-weekly and analyzed exam performance to better support academic needs.

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## LEADERSHIP & EXTRACURRICULARS

### Space Technologies and Rocketry (STAR)

*Simulations Data Analyst*

Berkeley, CA

Sept 2023 - Present

- Collected data from rocket navigational systems and telemetry, then processed the data to use in data analysis and visualization.
- Discovered trends in data that is used to adjust and optimize flight trajectories of rockets, increasing flight altitude by 30%.

### Collatz Conjecture – UC Berkeley Mathematics Department

*Data Analyst*

Berkeley, CA

Mar 2022 - Present

- Assisted in research of the Collatz Conjecture, contributing to the exploration and potential solution to this unsolved problem.
- Created high-level mathematical models to present solutions, adjusting the accuracy of a machine learning growth predictor.

### Pi Lambda Phi International Fraternity, CA Tau Chapter

*President and Vice President of Communications*

Berkeley, CA

Jan 2021 – Feb 2023

- Collaborated with the university and an executive body to foster an inclusive environment for students interested in Greek life.
- Managed an organization of students and delegated tasks to ensure efficient operations and optimal financial expenditure.
- Fostered proactive communication within organization about internal meetings and upcoming events, increasing attendance 200%.

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## PROJECTS

### Film Genre Classifier

- Designed a k Nearest Neighbor classifier trained for differentiating film genres and classifying films using a data set of over 5000 words.
- Classifier made predications of film genres with 92.5% accuracy on a data set with over 10000 films from the Box Office.

### Autocorrected Typing Software

- Developed an autocorrecting algorithm for a typing software that includes typing games and testing, inspired by “typeracer”.
- Implemented multiplayer features by connecting multiplayer server to a and distributed software to enjoy typing games with friends.

### Exo-Planet Classifier

- Utilized a Neural Network and Clustering algorithms to classify exo-planets by size from a data set produced by NASA with 400 planets.
- Neural Network made predictions with 86% accuracy while maintaining a speedy runtime.

### Big 5 Sporting Goods Online Data Scraper

- Created an online data scraper for Big 5 Sporting Goods to extract data on daily promotions and exported data into a CSV file.
- Analyzed data to determine price differences of products with and without promotions and analyzed price trend for various products.

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## SKILLS & INTERESTS

**Skills:** Python, R, SQL, JAVA, Machine Learning, Data Analysis, Statistical Modelling, Linear Algebra, Data Mining, A/B Tests

**Interests:** Football, Fitness, R&B, Video Games, Biking, Philosophy, Greek Mythology, Music Festivals, Sudoku, Spike ball