

# Eric Ju

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## EDUCATION

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### University of California, Berkeley

Expected May 2027

*Intended Bachelor's Degree in Applied Math and Computer Science*

*Berkeley, CA*

- Coursework: Data Structures, Structure and Interpretation of Computer Programs, Discrete Math and Probability Theory, Linear Algebra, Multivariable Calculus

## EXPERIENCE

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### Media Services Tech Assistant

Aug. 2023 – Present

*Berkeley Law School*

*Berkeley, CA*

- Responsible for assisting Law Professors with technology issues
- Maintained the audio visual systems of entire school
- Helped to set-up and clean up for large formal events

### Lifeguard

Sep. 2022 – Aug. 2023

*Northwest YMCA of Silicon Valley*

*Cupertino, CA*

- Ensured the safety of more than 50 members during open swim and swim lessons
- Responsible for testing the water chemicals and documenting the results
- Tasked with engaging with members and documenting incidents

### Hardware Internship

Jun. 2022 – Aug. 2022

*DT Research, Inc.*

*San Jose, CA*

- Tested for software defects in hundreds of assembled devices per day
- Developed multiple Standard Operating Procedures for testing devices

### Lifeguard

Jun. 2022 – Aug. 2022

*Rancho Rinconada*

*Cupertino, CA*

- Ensured the safety of 40 members during open swim
- Tasked with engaging with members and documenting incidents

## PROJECTS

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### Data Scraping Research Assistant

Fall 2023

- Worked as a project lead with ESPM Ph.D. student Deibi Sibrian to develop a data scraping algorithm
- Focused the environmental and socioeconomic effects of Bitcoin in developing countries
- Used BeautifulSoup to analyze 20 media sources such as BBC

### NGordNet

Fall 2023

- Developed a version of Google's NGrams and Princeton's WordNet in Java
- Displayed the relative popularity of given words, along with finding similar words
- Implemented a custom HashMap and Directed Graph to store data for words

### K-5 Outreach Project

Jun. 2022 – Jun. 2023

- Initiated an educational program for underprivileged communities in East San Jose
- Developed and executed a weekly program with holistic STEM curriculum
- Coordinated with school leadership on expectations of the program
- Mentored other High Schoolers in running and further developing the program

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, SQL, Scheme, HTML/CSS, R

**Frameworks:** Flask, WordPress, Excel, PowerPoint, IntelliJ, VSCode, Google Suite

**Libraries:** Selenium, BeautifulSoup, Pandas, NumPy