

# NEERAJ RATTEHALLI

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## EDUCATION

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### University of California, Berkeley

2024

B.S in Electrical Engineering and Computer Science, Minor in Statistics

Organizations: Fintech@Berkeley, XRPL Campus Ambassador

Selected Coursework: CS 61A, EECS 16A, MATH 53, Introduction to Quantitative Finance, Blockchain Fundamentals, Linux SysAdmin Decal

### Menlo Atherton High School

2021

GPA: 4.00 unweighted, 4.44 weighted, Gold Presidential Service Award, Congressional App Challenge District Winner

## EXPERIENCE

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### Lighter Capital, *Technical Consultant*

September 2021 to December 2021

- Built LSTMs on balance and transaction sheet data
- Quantified growth potential and optimal reinvestment amount

### Ouyang Lab at Stanford, *Research Intern*

July 2020 to August 2021

- Utilized transfer learning from EchoNet Dynamic model to calculate end systole and end diastole timings
- Developed end to end pipeline to accurately calculate ejection fraction from echocardiogram scans
- Published [research](#) in JACC

### Sinha Lab at Stanford, *Paid Machine Learning Assistant*

June 2020 to March 2021

- Used Scrapy and BeautifulSoup to extract data from popular IBD subreddits
- Processed text with stemming, lemmatization, and regex
- Gathered sentiment with TextBlob and visualized results with Matplotlib and seaborn

## PROJECTS

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### Project SSMART

- Collaboration between Apple, Google, Stanford, and Veterans Affairs Hospital for remote surveillance of patients
- Used Apple's CareKit and HealthKit and Google Cloud Technologies like OAuth, Firebase, and BigQuery
- Built website with HTML/CSS, JavaScript, and Node.js

### Balbutire

- Designed an automated system for speech therapy through voice assistant technologies
- US Patent Pending - [16/842758](#)

## SKILLS

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**LANGUAGES:** Python, JavaScript, HTML/CSS, C++, Linux

**LIBRARIES/Frameworks:** Pytorch, Keras, Node.js, React.js, SCSS, Pandas, Sklearn, Numpy, Scrapy

## AWARDS

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### International Science and Engineering Fair Semifinalist, Siemens Corporation

2021

Top 800 projects chosen to compete in international science fair

### American Mathematics Competition, Mathematical Association of America

2021

3x USA(JMO) qualifier (top 300 competitors), 4x AIME qualifier, AMC 12 Perfect Scorer (1 of 7 students nationwide)

### Conrad Virtual Innovation Summit Finalist, Conrad Foundation

2021

Top 7 teams nationwide

### US Physics Olympiad, American Association of Physics Teachers

2020

Among top 100 competitors in the USAPhO exam, 2x qualifier