

Mehul Jaiswal

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EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor of Arts in Computer Science

Graduation Date: May 2025

- Coursework: Structure and Interpretation of Computer Programs, Data Structures, Discrete Maths and Probability, Computer Architecture (Machine Structures), Efficient Algorithms(CS170), Artificial Intelligence(CS188)
- Activity: Academic Intern for CS61a: Helping 40+ students in Lab, CSM Junior Mentor: Teaching 5 student section
- Achievements & Awards: VIDA and DASG Student Leadership Award 2023, DASG Scholarship, Community Engagement Scholar, Dean's List, Honor's Program.

PROFESSIONAL EXPERIENCE

Blue-I-Tek

June 2022 – September 2022

Software Engineering Intern

Fairfax, VA

- Collaborated with a cross-functional team to debug and verify software, leading a **15% increase in product stability**.
- Developed a data analytics platform using APIs, resulting in a **35% improvement in data processing speed**.
- Assisted in the development of a chatbot system using React and Node.js, which significantly helped generate leads and **reduced support response times by 25%**, resulting in higher customer satisfaction.
- Engaged in the agile development process by attending daily meetings and bi-weekly sprint planning sessions.

MSTRC Center, De Anza College

April 2022 – July 2023

Senior Math & Science Tutor

Cupertino, CA

- Conducted **successful tutoring sessions for over 200 students** in lower-division Math & Physics courses.

De Anza College

January 2022 – July 2023

CS Teaching Assistant/Tutor

Cupertino, CA

- **Held weekly office hours for 30+ students** for Prof. Felix Amoruwa and made sample exams for practice.
- **Tutored 100+ students and helped students with bugs and fixes** in labs/projects.

PROJECTS

Music Store Franchise | *Skills: Java, Data Structures, React, SQL*

- Designed and implemented Java-based music store system capable of **storing and managing 100+** music records efficiently.
- Utilized various data structures including **arrays, binary trees, heaps, hash tables, and linked lists** for optimization, achieving **15% reduction** in memory usage through continuous optimization.
- Led a team of three developers in the continuous improvement of the application, **resulting in a 35% enhancement in overall application speed**, leading to improved customer satisfaction and retention rates.

Find Your Den (Calhacks9.0) | *Skills: JavaScript, HTML, CSS, React.js, Firebase, APIs, Data processing*

- Collaborated with a team of 3 to develop a website to assist UC Berkeley students in finding housing.
- Leveraged JavaScript, React.js, and Firebase to optimize data processing, **leading to a 30% reduction** in page loading time.

Emotional AI Therapy Chatbot | *Skills: Python, Anaconda, React.js, AI, Flask API, ML, Hume API*

- Created an emotion therapy chatbot with advanced natural language processing and machine learning techniques, leveraging Hume API's advanced APIs.
- Achieved 90% empathy response in chatbot's interactions, resulting in positive changes in users' lives, thereby highlighting the project's significant impact on mental well-being.

Stock Analyzer and Predictor | *Skills: Python, Data Structures, NumPy, TensorFlow*

- Designed program to analyze stock data to provide investment recommendations, **reducing decision-making time by 75%**.
- **Achieved a 90% average return on investment** with a \$100 investment using the program.

BYOW: Build Your Own World | *Skills: Java, Data Structures*

- Designed game like pacman using various data structures where the user needs to collect coins before the opponents eats user.
- Coded an **A* Algorithm** for the opponent to chase the user with **100% efficiency**.

ACTIVITIES & LEADERSHIP EXPERIENCE

Co-founder and Vice President at ACM De Anza Club Chapter

January 2022-June 2023

- **Organized 7+ speaker events** featuring industry professionals, conducted computing workshops, and hosted hackathons.

SKILLS

Programming: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, React, Node.js, JUnit, WordPress, Material-UI, APIs

Developer Tools/Concepts: Data Structures and Algorithms, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, NLTK

ADDITIONAL INFORMATION

Languages: English(Bilingual), Hindi(Bilingual), and Spanish(Beginner).