

# Richa Jos

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**University of California, Berkeley** GPA: 3.52/4

**August 2022 - May 2026**

*B.S. Electrical Engineering and Computer Science*

Relevant Courses: Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Designing Information Devices and Systems I & II, Computer Security, Machine Structures, Efficient Algorithms and Intractable Problems, Discrete Math and Probability, Blockchain for Developers

## TECHNICAL SKILLS

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**Tech:** Back end Development (**Node.js**, **Next.js**, Express, Spring, **REST APIs**), DataBases (**MongoDB**, **Firebase**, **DynamoDB**), Front end Development (**React**, Angular, **Chakra UI**, **HTML/CSS**), Machine Learning (**LLMs**, Regression, Clustering, Pytorch), **Docker**, Kubernetes, Version Control (**Git**), Testing (**Postman**, **JUnit**, Developer Tools), Data Science (Numpy, Pandas, **JupyterHub**), **Git**, Terminal, XCode, **VS Code**

**Services/APIs:** **Leaflet.js**, **OpenAI**, **Google Cloud**, AWS, ARKit, Twillo, **Firebase Auth**

**Languages:** **Java**, **Python**, **JavaScript**, TypeScript, C, C++, Flutter, Dart, Swift

## EXPERIENCE

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### Software Engineering Intern

**June 2024 - Present**

*Yoda Labs*

- Incoming summer 2024

### Software Engineering Intern

**January 2024 - May 2024**

*Gitty AI*

- Created 7 site pages using React for hiring platform connecting Managers and Recruiters within Next.js framework
- Integrated a Job Posting ChatBot using AWS Lex, facilitating the creation of job postings.
- Led API development using Node.js, streamlining interaction between managers and recruiters
- Created JSON schemas to capture chatbot inputs for job postings stored in DynamoDB database; conducted comprehensive testing of API endpoints with Postman to validate data accuracy.
- Contributed and to a team that developed an AI-driven matching algorithm, which improved hiring accuracy over previous methods by analyzing and matching recruiter submissions with job requirements.

### Software Engineering Intern

**May 2023 - August 2023**

*Geopogo*

- Assisted in backend development for new UI features, enhancing the application's performance and user experience.
- Helped develop and prototype a new feature, tags, using ARKit/Swift to allow users to save and continue projects.
- Utilized AWS Amplify and Amazon Cognito for authentication and managed data storage using Aurora RDS.
- Developed API endpoints for 'tags', serving as bookmarks for users to save AR designs efficiently

## PROJECTS /EXTRACURRICULARS

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### SafeZone (Project Link: [SafeZone](#))

- Full-stack CRUD web application to compile Berkeley's Warn Me system into a user-friendly application running on Spring using Java, JavaScript, Bootstrap, and MongoDB
- Used OpenAI's GPT-3 with Google Geolocation API to process user queries into search terms for incident database
- Integrates with OpenStreetMap using Leaflet.js to display incident locations visually on a map-based interface, including routing controls based on user location, sending SMS updates for local incidents via Twillo
- Integrated Docker to orchestrate container management, projected to enhance scalability and reliability by around 20% during peak usage periods, aimed at reducing downtime and optimizing resource utilization.

### Web Development at Berkeley (Counselor, Full-Stack Development)

- Developed full-stack applications for industry clients (prev. clients Gitty AI, Convex, Formula Electric @ Berkeley)
- Developed a simplified knowledge management platform, inspired by Notion, utilizing React, Next.js, MongoDB, and RESTful APIs to ensure a scalable and responsive backend.

### Computer Science Kickstart

- Teaching Assistant - taught Berkeley's CS61A to incoming underrepresented freshmen and led program Academic Interns