

# Rafael Mojica

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## EDUCATION

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**University of California, Berkeley**

December 2027

*B.S in Electrical Engineering & Computer Sciences*

## EXPERIENCE

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**Software Engineer** | *Mobile Developers @ Berkeley*

February 2026 - Present

- Architected and deployed cross-platform mobile applications using React Native and TypeScript, integrating Firebase Authentication and Cloud Firestore to manage real-time data synchronization for **200+** active users.
- Managed event data and user interactions by implementing a NoSQL database with Cloud Firestore to support over 100 event posts, alongside using Cloud Storage for secure hosting of user-generated images.

**Club Vice President of Software Engineering** | *Google Developer Student Club*

August 2023 – May 2024

- Led full-stack development workshops for **100+** members, standardizing **REST API** integration and async JavaScript patterns across 5+ club projects.
- Established React/Next.js project structure and state management conventions, cutting contributor onboarding time and reducing malformed-data bugs in production.

## PROJECTS

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**Cooking Assistant** | React, JavaScript, Tailwind CSS, Firebase, Groq LPU, Cartesia, Framer-motion

- Built voice-integrated AI cooking assistant with React, using Groq LPU for real-time inference and Firebase/Firestore for multi-user recipe storage and retrieval.
- Reduced perceived latency by streaming LLM responses and updating UI state incrementally, improving conversational feel during inference.

**Student Social Platform** | Next.js, JavaScript, Firebase, Tailwind CSS

- Programmed a real-time community forum in Next.js with **recursive** nested comment threads and optimized NoSQL queries to stay within **50,000** daily Firestore read limits.

**Ecommerce Library** | React, JavaScript, CSS

- Built a modular e-commerce frontend in React with **15+** reusable components and custom hooks covering cart state, local storage persistence, product filtering, and responsive grid layout.

**Game Database** | React, JavaScript, Tailwind CSS

- Built a game browsing platform in React consuming a **RESTful API** to render and filter **500+** game entries with instant client-side filtering.

## WORK EXPERIENCE

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**Computer Science Tutor** | *Math, Engineering, Science, Achievement (MESA)*

August 2024 - May 2025

- Tutored C++ fundamentals, **data structures and algorithms**, and differential and integral calculus techniques, helping **100+** college students ace their exams and understand the material more deeply.

**Mathematics Tutor** | *Mathnasium*

September 2023 - August 2024

- Instructed Algebra I & II, Geometry, Graphs, Pre-Calculus, Calculus, proportional reasoning, polynomial division, and complex word-problem solving, significantly improving **300+** students' grades.

## TECHNICAL SKILLS

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**Languages:** C++, Java, Python, SQL, JavaScript, TypeScript, HTML, CSS (Sass)

**Developer Tools:** Git, CI/CD, REST APIs, JSON, Docker, AWS, Prisma, Figma, Vite, Vercel

**Technologies/Frameworks:** Next.js, React/React Native, React Navigation, Expo, Node.js, PostgreSQL, Tailwind, Firebase, Supabase, Django, Express.js, RESTful APIs

**Relevant Coursework:** Data Structures, Algorithms, Object-Oriented Programming, Advanced Python Programming, Intermediate C++, Multivariable Calculus