

Alea Rao

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Interests: Computer Science, Product Management, Coding, Engineering Psychology, Consulting

EDUCATION

Tufts University

Medford, MA

Bachelor of Science in Engineering: Computer Science

Minors: Mathematics, Human Factors Engineering

Expected May 2028

- **GPA:** 3.86/4.0 | **Honors:** Dean's List (All Semesters)
- Relevant Coursework: Engineering for the Customer, Linear Algebra, Intro. to CS, Discrete Math, Web Programming, Data Structures, Methods for Human Factors Engineering

WORK EXPERIENCE

Jumbocode, Software Developer

Medford MA, Oct 2025 - Present

- Collaborated with a team to develop and launch a web application using React, Next.js, and TypeScript, with PostgreSQL for backend support.

Tufts Consulting Collective, Junior Analyst

Medford MA, Sep 2025 - Present

- Working with a 9-person consulting team to build a client's partner ecosystem and AI GTM strategy through landscape analysis, fit frameworks, and education tools.

Tufts University, Computer Science Teaching Assistant

Medford MA, Aug 2025 - Present

- Facilitate student learning through weekly office hours on introductory coding concepts in Python
- Responsible for grading assignments and providing feedback to students

Ernst & Young, Technology Consulting Intern

Singapore, June 2025 - Aug 2025

- Developed a self-service user experience and interface for a government agency.
- Facilitated concept testing sessions with stakeholders to validate alignment between visionary concepts and the government agency's service vision.
- Researched AI models and made recommendations for final product implementation

INDEPENDENT PROJECTS/LEADERSHIP EXPERIENCE

C2Pay, Developer + Founder - *Best Financial Hack Award by Capital One @ HackHarvard '25*

Cambridge MA, Oct 2025

- Built C2Pay, a mobile SDK that applies risk-based adaptive MFA to enhance payment security.
- Implemented C2PA manifest generation and TEE-backed key handling within a React Native SDK for verifiable, seamless transactions.

Tufts Women in Product, Director of Marketing

Medford MA, May 2025 - Present

- Founded the club's marketing function, building brand identity and outreach strategy from scratch
- Designed campaigns and events to establish WiP's presence and foster cross-campus collaborations

Trovrr, Product Manager - *Awarded 2nd Place @ Tufts Production*

Medford MA, March 2025 - Present

- Defined and managed product roadmap for a React + Supabase campus marketplace app; fostered strong student communities by enabling secure exchange of goods and services.
- Conducted user research and feedback sessions with 20+ students to ensure the platform addressed community needs and promoted inclusivity in campus life.

Tufts University IDEA Lab, Project Lead, Design Evolution Project

Medford MA, September 2024 - June 2025

- Leading a 15 person team charged to streamline the design process of the human brain
- Developed an ML-powered image generation platform by conducting user research, competitive analysis, and Figma prototyping, using tools like OpenAI, TensorFlow, and OpenCV for design system integration.

SKILLS

Programming Languages: C++, Python, Java, HTML, CSS, JavaScript

Software: Figma, Canva, Microsoft Office (Word, Excel, PowerPoint), Github, OpenAI

Frameworks/Libraries: PyTorch, React Native, TensorFlow, OpenCV

Foreign Languages: English (Fluent), Mandarin (Conversational)

Databases: MySQL, Supabase