

# Alea Rao

Singapore, Medford, MA | +1 339 241 7825 | [alearao@gmail.com](mailto:alearao@gmail.com) | <https://alearao.github.io/>  
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

### United World College South East Asia Dover

Singapore

*International Baccalaureate Diploma (2022-2024)*

Aug 2010 - May 2024

- Final Score: 39/45 (Passed)
- Relevant Coursework: Higher Level Computer Science (7), Higher Level Mathematics Analysis & Approaches (7)

## WORK EXPERIENCE

### 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

### Trovr, 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.
- Launched peer-to-peer listings that encourages reuse and connects students through tutoring, and skill-sharing.
- Conducted user research and feedback sessions with 20+ students to ensure the platform addressed community needs and promoted inclusivity in campus life.

### Elev8.v, Intern

Singapore, Dec 2022 – Jan 2023

- Conducted market research to help identify investment trends and opportunities within the deep tech mobility market

## INDEPENDENT PROJECTS/LEADERSHIP EXPERIENCE

### 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

### 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.

### Jumbuddy, Project Manager

February 2025

- Directed a 6-person hackathon team to develop an app to help university students meet others with similar interests.
- Coordinated development using React-Native, Airtable, Tailwind and Expo, delivering a working prototype.

## 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