

Alea Rao

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Interests: Computer Science, UX/UI Design, Product Management, Cognitive Science, Coding, Engineering Psychology

EDUCATION

Tufts University

Medford, MA

Bachelor of Science in Engineering: Computer Science

Minors: Mathematics, Human Factors Engineering

Expected May 2028

- GPA: 3.8/4
- Relevant Coursework: Engineering for the Customer, Linear Algebra, Intro. to CS, Discrete Math

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

Computer Science Teaching Assistant, Tufts University

Medford MA, Aug 2025 - Present

- Teaching Assistant for CS10: Computer Science for All, an introductory Python programming course
- Hold office hours and grade assignments, providing guidance on fundamental programming concepts and debugging techniques

Software Developer, Scenelt

Medford MA, April 2025 - Present

- Building a mobile app using React Native that aims to provide a more connected platform for student clubs across universities.

Technology Consulting Intern, Ernst & Young

Singapore, June 2025 - Aug 2025

- Worked with clients to leverage technology for business transformation and digital solutions
- Supported technology transformation projects using design thinking, agile methodologies, and emerging technologies

Project Lead, IDEA Lab Tufts University, Design Evolution

Medford MA, September 2024 - Present

- Aims to leverage the product design abilities of the human brain to develop a novel evolution design system
- Developed an ML-powered image generation platform by conducting user research, competitive analysis, and Figma prototyping, as well as using tools like OpenAI, TensorFlow, and OpenCV for design system integration.

Intern, Elev8.vc

Singapore, Dec 2022 – Jan 2023

- Worked for a B2B-focused VC fund that invests in early-stage deep technology founders.
- Conducted market research to help identify investment trends and opportunities within the market of mobility

PROJECTS

Jewelry Database Management System

- Worked through product life-cycle with a client to produce a management system for business using Java and MySQL

IB-Edubot: AI Chatbot for IB students

- Used python libraries including keras and tensor-flow to build a simple interactive chatbot designed to help IB students revise for their exams.

Jumbuddy App

- Built an App for a hackathon to help students in university branch out and meet other students with similar interests
- Framework included React-Native, Airtable, Tailwind

ADDITIONAL

Technical Skills: Java (Experience in OOP), Python; Experience in HTML/CSS/JS, C++, React-native, Figma, MySQL

Other Skills: Microsoft Office (Excel, Word, PowerPoint), Time Management, Creative Problem Solving, Canva

Languages: Fluent in English; Conversational Experience in Mandarin