

Kevin Zhu

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Pursuing B.S. in Computer Science & Engineering | GPA: 5.0/5.0

Expected in May 2026

- Coursework: Discrete Math, Multivariable Calculus, Fundamentals of Programming, Introduction to Algorithms, Linear Algebra, Microeconomics, Intro to Python, Physics Mechanics, Physics E&M

EXPERIENCE

Lawrence Livermore National Lab

Livermore, CA

Data Science Intern

May 2024 - Present

- Currently building ML models to predict human performance using biomarker data from West Point
- Training data from over 50,000 molecular measurements (heart rate, protein content, VO2 max, etc.)

Swiftly

Cambridge, MA

Tech Consultant

Jan 2024 - May 2024

- Developed retail system using Python and sk-learn library to manage catalog of over 6 million products
- Implemented k-means clustering on vectorized product descriptions using bag-of-words model

MIT Media Lab

Cambridge, MA

Undergraduate Researcher

Nov 2023 - Feb 2024

- Contributed to *MemEye* study – using eye movement and emotibit data to predict memory phases
- Calculated saccades, fixation, blinks data from 32 participants by using Python, pandas, and SciPy
- Performed ANOVA comparative analysis of learning, recall, recognition phases on the saccades dataset
- Built machine learning models for predicting memory phases based on eye data using TensorFlow

Alameda County District 1

Pleasanton, CA

Office Intern

Jun 2022 - Sep 2022

- Developed emergency response procedures in unincorporated town Kilcare Woods, CA
- Researched viable emergency systems, solutions, and funding for county initiatives and projects
- Assisted Alameda County Board of Supervisors with event planning, meeting minutes, and special tasks

PROJECTS

QuickDef – Chrome extension to explain unknown text using OpenAI API

May 2024 - Jun 2024

- Developed Chrome extension using JavaScript that produces real-time explanations with popup interface
- Increased user learning efficiency by reducing overhead from repeatedly switching tabs to lookup info
- Utilized Chrome Extensions API to access webpage text and OpenAI API models to generate explanations

Quote Search – Efficient search tool for precise quotes

Dec 2023 - Jan 2024

- Developed web application using React (Next.js) and Tailwind CSS to create UI for search tool
- Implemented approximate keyword matching in search engine by using fuzzy search library from Fuse.js
- Created Python script to transform csv dataset of 500,000 quotes, authors, and categories to json format
- Added incremental search feature that updates search results with every keystroke

Carbon Counting – Interactive media game for HackMIT

Sep 2023

- Generated 2 randomized routes with varying modes of travel; asked user to guess carbon-efficient option
- Used HTML, CSS, and JavaScript to produce website and game functionality
- Utilized Google Maps API for location libraries and distance data; integrated API library into front-end code

ADDITIONAL INFORMATION

- **Languages:** Python, JavaScript, SQL, HTML, CSS
- **Technologies:** React, Node, Numpy, Pandas, TensorFlow, Git, Linux
- **Activities:** MIT Varsity Men's Volleyball, Sigma Chi Fraternity, MITech Consulting Club, MIT Entrepreneurship Club