

Kevin Zhu

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Pursuing B.S. in Computer Science & Engineering | GPA: 4.8/5.0

Expected in May 2026

- **Relevant Coursework:** Intro to Algorithms (6.121/6.006), Discrete Math (6.120/6.042), Linear Algebra (18.06), Fundamentals of Programming (6.101/6.009), **Fall Coursework:** Design and Analysis of Algorithms (6.122/6.046), Probability and Random Variables (18.600), Intro to Machine Learning (6.390/6.036)

EXPERIENCE

Lawrence Livermore National Lab

Livermore, CA

Data Science Intern

May 2024 - Present

- Implemented LASSO regression model for prediction of phenotypic and athletic performance measures
- Used training data from >50,000 molecular measurements (Cytokines, Metabolomes, DNA Methylation, etc.)
- Performed feature selection using cross-validation and hyperparameter tuning (alpha) to minimize MSE
- Utilized Quartz supercomputer, one of the world's fastest HPC supercomputers, for computing tasks

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

- Dataset paper "Physiological Dataset for Cognitive States of Learning, Recognition, and Recall" in preparation
- Performed ANOVA analysis of learning, recall, recognition phases on an eye based bio-signals dataset
- Used Python, Pandas, SciPy to create data pipelines and processing for ML models

PROJECTS

Jabber AI – Personal project planning assistant and interactive notes whiteboard

Jun 2024

- Integrated Hume EVI and speech prosody model for real-time conversation and emotional intelligence
- Used Masonry.js to implement reactive grid UI and synchronous notecard features
- Used OpenAI API and prompt engineering to process transcriptions and create digestible bullet notes

QuickDef – Chrome extension to explain unknown text using OpenAI API

May 2024

- Developed Chrome extension using JavaScript that produces real-time explanations with popup interface
- Increased learning efficiency by reducing overhead from switching tabs to lookup info
- Utilized Chrome Extensions API to access webpage text and OpenAI API 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
- Used Fuse.js fuzzy search library to implement approximate keyword matching in search engine
- Wrote 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

ACTIVITIES AND SKILLS

- **MIT Varsity Men's Volleyball:** NCAA DIII Student Athlete

- **Activities:** Sigma Chi Fraternity, MITech Consulting Club

- **Languages/Technologies:**

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|----------|--------------|---------------|--------------|
| • Python | • JavaScript | • AWS | • HTML |
| • SQL | • React | • Keras | • Linux |
| • Pandas | • TypeScript | • Git, Github | • TensorFlow |