Kevin Zhu

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**
B.S. in 6-3 Computer Science & Engineering | GPA: 4.8/5.0   *Expected May 2026*
- **Relevant Coursework:** Design and Analysis of Algorithms (6.122/6.046), Intro to Algorithms (6.121/6.006), Intro to Machine Learning (6.390/6.036), Discrete Math (6.120/6.042), Linear Algebra (18.06), Fundamentals of Programming (6.101/6.009), Probability and Random Variables (18.600)

EXPERIENCE

MIT CSAIL Kellis Lab (Computer Science and Artificial Intelligence Laboratory)   **Cambridge, MA**
Researcher   *Sep 2024 - Present*
- Developing AI systems to represent complex data in visual, interactive knowledge maps (Mantis)
- Designing Orchestrator AI agent to decompose tasks, coordinate outputs, and generate actionable insights
- Building Narrator AI agent to provide real-time, contextual explanations using GPT-based NLP models

HackMIT   **Cambridge, MA**
Organizer   *Sep 2024 - Present*
- Organizing HackMIT, MIT's largest undergrad hackathon with 1000+ hackers, 200+ schools, $10k prizes

Tomo AI   **San Francisco, CA**
Full Stack Founding Software Engineer   *Jan 2024 - Sep 2024*
- Developed front-end UI for interactive AI chatbot "friend" with various chat features/capabilities using React
- Reduced LLM usage costs by 25x by fine-tuning Llama 3.1 8B model with custom chat history dataset

Lawrence Livermore National Laboratory   **Livermore, CA**
Data Science Researcher   *May 2024 - Aug 2024*
- 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 to minimize MSE
- Utilized Quartz supercomputer, one of the world's fastest HPC supercomputers, for computing tasks

MIT Media Lab   **Cambridge, MA**
Researcher   *Nov 2023 - Feb 2024*
- Dataset "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 2023*
- Developed Chrome extension using JavaScript that produces real-time explanations with popup interface
- Utilized Chrome Extensions API to access webpage text and OpenAI API to generate explanations

Quote Search – Efficient search tool for precise quotes   *Dec 2022*
- Used Fuse.js fuzzy search library to implement approximate keyword matching in search engine
- Added incremental search feature that updates search results with every keystroke

ACTIVITIES AND SKILLS

- **Activities:** HackMIT, MIT AI Alignment, MIT Entrepreneurship Club, Sigma Chi, NCAA DIII Men's Volleyball
- **Languages/Technologies:** Python, C/C++, JavaScript, TypeScript, Node.js, React.js, Express.js, AWS Cloud, NoSQL, Mongo, Flask, dynamoDB, PostgreSQL, HTML, CSS, Google Cloud, Git, Java, Lua, LaTeX, Bash, Assembly x86, Linux, PyTorch, TensorFlow, Pandas, NumPy