

Jeffrey Li

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Education

Massachusetts Institute of Technology

Bachelor of Science, Computer Science & Engineering

Cambridge, MA

Exp. May 2027

Relevant Coursework: Fundamentals of Programming, Linear Algebra, Discrete Math, Programming in C and Assembly, Machine Learning, Algorithms, Software Construction, Computation Structures, Deep Learning (G), Natural Language Processing

Experience

MIT Computer Science & Artificial Intelligence Lab + Department of Brain & Cognitive Sciences

Cambridge, MA

Machine Learning Researcher

Sept 2025 – Present

- Conducting hyperparameter optimization by analyzing how learning rates affect neural network convergence, validating recent theory from Keller Jordan through PyTorch experiments and extending findings to language model training architectures.

Amazon Web Services

Seattle, WA

Software Development Engineer Intern - AWS Fargate

Jun 2025 – Aug 2025

- Built an internal CLI for Fargate teams used by 50+ engineers, integrating 8 service APIs for EC2 Managed Instances to automate test setup; processed 200+ ops/day and cut setup time by 32% by replacing manual steps with scripted workflows.
- Automated region build system for Fargate mechanic tool using infrastructure-as-code and CI/CD, replacing a 14-step manual process with one-touch expansion into new AWS regions and reducing deployment time from 1 week to 3 hours.

Amazon Web Services

Seattle, WA

Software Development Engineer Intern - AWS Fargate

Jun 2024 – Aug 2024

- Designed and implemented an asynchronous lifecycle management workflow using Java + DynamoDB to automate the draining processes for EC2 Managed Instances, reducing manual intervention by 23% and improving lifecycle management efficiency.
- Built test automation stack achieving 90+% code coverage through JUnit + Mockito, structured logging, and metrics handling.

Vibrantec

Remote

Team Lead & Full Stack Developer

Jan 2024 – Present

- Led architecture & UI/UX development for health tracking app across 5 product launches, implementing Flutter/Java with server-driven UI backend architecture and AWS Lambda endpoints based on sales team and customer feedback
- Managed engineering team of 3 developers, increasing sprint velocity by 30% through streamlined workflows with code reviews

The Silicon Project

New York, NY

Director of Technology

Sept 2023 – Sept 2024

- Scaled website operations to 5k+ monthly page views, leading team of developers through comprehensive UI/UX redesign and SEO optimization that achieved top 3 Google and LLM search rankings for key electronics donation keywords
- Built e-commerce platform processing \$10k+ in sales from premium donor partnerships (Simons Foundation, Supreme, Nicole Miller, Ralph Lauren Family), achieving financial sustainability through discounted electronics resale without external funding.

Activities & Extracurriculars

MIT Sandbox Innovation Fund

Sept 2024 – Sept 2025

- Co-founded Casava, comprehensive sublet search platform aggregating listings scraped from multiple social media sites (Facebook, Craigslist, RedNote), securing \$1,500 in pre-seed funding and building a 100+ person waitlist prior to launch.
- Led market validation through interviews with 5+ rental companies and surveys to 50+ students, identifying key pain points.

Harvard MIT Math Tournament, Community Staff

September 2024 – May 2025

- Coordinated operations and social events planning for one of the world's most prestigious high school math competitions, serving 1,000+ participants from around the globe across dual November and February tournaments at MIT and Harvard.

Skills & Interests

Organizations: HackMIT organizing committee, MIT Entrepreneurship club, Chinese Students Club

Technologies: Python, Java, C, React, Node, Express, FastAPI, Tailwind, Typescript, Flutter, Firebase, SQL, AWS, PyTorch, Swift, Xcode

Interests: Startups, side projects, hikes, weightlifting, basketball, The Knicks, Suits, 12 Angry Men

Languages: English, Chinese – *All professional proficiency or above.*