

# 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*

- Created internal CLI tool for Fargate teams (50+ engineers), integrating 8 backend service APIs to streamline testing workflows, processing 200+ daily operations and reducing setup time from 25 minutes to 5 minutes, saving 15+ hours weekly.
- Automated region build system for Fargate mechanic tool using infrastructure-as-code and CI/CD pipelines, enabling "one-touch" expansion into new AWS regions and reducing regional deployment time from 1 week manual process to 3 hours.

### Amazon Web Services

Seattle, WA

*Software Development Engineer Intern - AWS Fargate*

*Jun 2024 – Aug 2024*

- Designed and implemented an asynchronous workflow system using Java + DynamoDB to automate draining processes for a new Fargate capability (product facing), reducing manual intervention by 23% and improving lifecycle management efficiency.
- Developed a comprehensive test automation framework using JUnit + Mockito, achieving 90+% code coverage.

### 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*

*Mar 2023 – Jun 2023*

- Scaled website operations to 15k+ 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*

- Managed catering logistics for high school math tournament, ensuring seamless food service for 300+ participants.
- Organized staff engagement initiatives, including coordinating a bowling event for 50+ tournament volunteers.

## Skills

**Organizations:** HackMIT organizing committee, MIT Entrepreneurship club

**Technologies:** Python, Java, C, React/Next, Express, FastAPI, Tailwind, Typescript, Flutter, Firebase, Prisma, SQL, AWS, PyTorch

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

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