

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 (graduate), 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 through large-scale PyTorch experiments.

Amazon Web Services

Seattle, WA

Software Development Engineer Intern - Fargate Placement Team

Jun 2025 – Aug 2025

- Created an internal CLI tool for Fargate teams (50+ engineers), integrating 8 backend service APIs to streamline testing workflows and improve deployment efficiency.
- Automated region build system for Fargate mechanic tool, enabling “one-touch” expansion into new AWS regions.

Vibrantec

Remote Team

Lead & Full Stack Developer

Jan 2024 – Present

- Building a health tracking app using Flutter/Java with server-driven UI architecture and AWS lambda endpoints, integrating health APIs and translation services to support multilingual wellness tracking
- Led team of 3 developers through weekly sprints and code reviews, maintaining high quality code.

MIT Media Lab

Cambridge, MA

Undergraduate Researcher

Sept 2024 – Dec 2024

- Developed Python automation framework using LangChain and LLMs to translate liquid handling protocols into executable robot commands, integrating with Opentrons and PyLabRobot APIs for autonomous wet lab operations

Amazon Web Services

Seattle, WA

Software Development Engineer Intern - Fargate Placement Team

Jun 2024 – Aug 2024

- Implemented an asynchronous workflow using Java and DynamoDb to initiate the draining process in a new AWS Fargate capability, which improved lifecycle management efficiency.
- Used JUnit and Mockito to develop automated test suites with 90+% code coverage.

The Silicon Project

New York, NY

Director of Technology

Mar 2023 – Jun 2023

- Scaled website operations, leading team through UI/UX redesign, SEO optimization, and e-commerce platform launch
- Managed \$250k+ electronics donation pipeline, streamlining donor outreach and recipient request processing

Activities & Extracurriculars

MIT Sandbox Innovation Fund

Sept 2024 – Present

- Co-founder of [Casava](#), the search tool to help students find sublets faster; received \$1,500 in pre-seed funding.
- Conducted market research through interviews with rental companies and surveys from 50+ students.

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

Programming: Java, Python, C, React/Next, Express, FastAPI, Tailwind, Typescript, Flutter, Swift, Firebase, DynamoDB, MySQL, PostgreSQL, AWS, PyTorch

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