

Bobo Lin

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Education

Massachusetts Institute of Technology, BS in Computer Science and Mathematics Aug 2024 - May 2028

- Activities: Undergraduate Research Technology Conference (URTC), Women in EECS, Poker Club
- Relevant Coursework: Fundamentals of Programming, Introduction to Algorithms, Probability and Random Variables
- Currently Taking: Introduction to Machine Learning, Optimization Methods, Fundamentals of Statistics, Linear Algebra

Jones College Preparatory, High School Diploma Aug 2020 - May 2024

- Top 10 Graduate (Out of 500), Science Department Award
- The Gates Scholarship Winner (Apr 2024), NCWIT Aspirations in Computing National Honorable Mention (Jan 2024), Northern Illinois Affiliate Winner (Feb 2024), Illinois State Scholar (Nov 2023)

Experience

Software Development Engineer Intern, Amazon Web Services – Seattle, WA May 2025 - Aug 2025

- Integrated 5 APIs to enable customers to query logs directly via AWS CLI commands
- Designed DynamoDB implementation for metadata mapping, improving lookup speed and enhancing user experience
- Created comprehensive end-to-end test cases, ensuring reliable and accurate request handling across various edge cases through 90%+ code coverage

Undergraduate Student Researcher, MIT Physics Department – Cambridge, MA Oct 2024 – Jan 2025

- Contributed to the Nuclear Weapons Education Project, supporting public education on nuclear policy and science
- Developed an interactive web simulation using HTML, CSS, and JavaScript to model the effects of nuclear weapons

Research Trainee, NASA AI/ML Analysis Working Group – Chicago, IL (Remote) Jun 2024 - Aug 2024

- Wrote Python code in Google Colaboratory to analyze biological datasets from the NASA Open Science Data Repository
- Applied data visualization, regression, clustering, and explainable AI techniques to real-world space biology problems
- Completed capstone projects and technical assignments focused on bioinformatics and machine learning workflows

Academic Tutor, Ivy Garden Learning Center – Chicago, IL Aug 2021 - May 2024

- Supervised and supported 10–20 middle school students in completing homework assignments across multiple subjects
- Fostered a positive and collaborative learning environment by encouraging teamwork, responsibility, and academic engagement
- Designed and delivered weekly math lessons to reinforce key concepts and enhance learning beyond the classroom curriculum

Research Intern, University of Illinois Cancer Center – Chicago, IL Jun 2023 - Aug 2023

- Selected as 1 of 30 interns from over 170 applicants for the University of Chicago–funded ResearchHStart program
- Analyzed clinical data to identify visual patterns in head and neck cancer symptoms using datasets from MD Anderson Cancer Center using Python libraries like NumPy and Matplotlib
- Presented research findings through a formal paper and poster session to an audience of 50+ peers and researchers

Skills

- **Programming languages:** Python, Java, JavaScript, C++, HTML, CSS, Julia, SQL, R
- **Tools and Technologies:** LaTeX, Google Colaboratory, Git/GitHub, Vim, Jupyter Notebook, Excel, AWS