Jessica Luu
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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**
B.S. in Computer Science and Artificial Intelligence   *Expected graduation May 2027*
- Relevant courses: Discrete Math, Fundamentals of Programming, Intro to Algorithms, Probability, Software Construction

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SKILLS

- Programming Languages: Java, Python, HTML, CSS, SQL
- Tools & Technologies: Git, Jira, Confluence
- Languages: English, Cantonese

WORK EXPERIENCE

Matillion   **Manchester, UK**
Software Engineer Intern   *June 2025 - Aug. 2025*
- Designed and implemented a systematic evaluation framework for Maia, Matillion's agentic AI, enabling consistent regression testing and long-term performance tracking.
- Developed custom Langfuse datasets to evaluate tool selection and orchestration, uncovering weaknesses in agent reasoning and guiding targeted improvements.
- Analyzed execution traces to diagnose performance bottlenecks and inefficiencies, driving enhancements in reliability and decision-making quality.

Foundation for Resilient Societies   **Cambridge, MA**
Data Analyst Intern   *Jan. 2025*
- Researched U.S. Energy Information Administration Form 860-M data for over 50 individual generating units to improve data accuracy for capacity planning.
- Analyzed key drivers of electrical load growth, including data centers, population increases, and electrification, to forecast future electricity demand and support grid resource planning.
- Modeled U.S. electric grid capacity, load, and resource adequacy using GridClue and SERVM, optimizing regional energy solutions to support policymakers' data-driven decisions.

MIT FutureBuilders   **Cambridge, MA**
Mentor   *Sept. 2024 - Nov. 2024*
- Identified gaps in students' understanding of low-code app development with AI, and created tailored learning sessions that enhanced their technical and entrepreneurial skills.
- Supported students in their projects by providing guidance on project scope and execution, leading to successful completion of multiple team-based initiatives.
- Delivered actionable feedback on homework submissions, improving team collaboration and project quality.

MIT Computational Psycholinguistics Lab   **Cambridge, MA**
Student Researcher   *June 2024 - Aug. 2024*
- Faced with a low participant pool, launched targeted recruitment campaigns, increasing experiment participation.
- Conducted eye-tracking experiments, accurately capturing and analyzing participant behavior to refine study results.
- Simplified raw data into clear, visually appealing formats for lab presentations, improving the team's ability to interpret and discuss findings.

LEADERSHIP EXPERIENCE

First-Gen Low Income at MIT   *Oct. 2023 - Present*
Community Committee Co-Lead
- Plan and execute engaging monthly events, driving increased member participation and strengthening community bonds.
- Gather and assess post-event feedback, leveraging insights to refine future events, ensuring greater relevance and quality, and boosting overall community engagement.

MIT's Questbridge Chapter   *Oct. 2023 - Present*
Treasurer
- Manage limited chapter funds efficiently, ensuring financial sustainability throughout the academic year.
- Develop comprehensive financial reports that guide event decision-making and secure additional funding for key initiatives.

AWARDS

- MIT First Year Student Award in Diversity & Culture
- The Gates Scholarship
- Questbridge Quest for Excellence USA Award