

# Raymond Xu

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## EDUCATION

<b>Northeastern University</b> <i>Bachelor of Science in Computer Engineering &amp; Computer Science, Minor in Mathematics</i>	Boston, MA Sep. 2024 – May 2028
<ul style="list-style-type: none"><li>• <b>GPA: 4.0/4.0</b>, Dean's List, Rev Cohort 4, Eta Kappa Nu</li><li>• Relevant Coursework: Algorithms &amp; Data, Computer Systems, Object-Oriented Design, Embedded Design</li></ul>	

## EXPERIENCE

<b>Software Engineer Intern</b> <i>Mosaic (YC W25)</i>	Jul. 2025 – Aug. 2025 San Francisco, CA
<ul style="list-style-type: none"><li>• Optimized agentic video editing pipeline by 40% by redesigning a React Flow-based node editor with pausing, selective restarts, and internal versioning for real-time debugging.</li><li>• Built a Remotion-based video editor in TypeScript/Next.js with synchronized timeline and inspector, boosting render performance by 80% and enabling multimodal video agent iteration.</li><li>• Built FastAPI endpoints to manage Supabase data and orchestrate Gemini API calls for agent reasoning.</li></ul>	
<b>AI/ML Fellow</b> <i>Break Through Tech</i>	Apr. 2025 – Present Cambridge, MA
<ul style="list-style-type: none"><li>• Selected from 3000+ applicants for 12-month program at MIT including ML coursework with Cornell faculty.</li><li>• Partnered with MathWorks on Human Motion Recognition project using IMU data; applied sliding window segmentation on HARTH dataset and trained Random Forest model with 94% accuracy in activity classification.</li><li>• Developed Next.js/FastAPI app for real-time activity classification using IMU sensor data from MATLAB app.</li></ul>	
<b>Section Leader</b> <i>Stanford University: Code In Place</i>	Apr. 2025 – May 2025 Remote
<ul style="list-style-type: none"><li>• Led a 1-hour weekly live section over a 6-week program to cohorts of 10–15 international students.</li><li>• Guided students through Stanford’s CS106A-based modules covering Python fundamentals: variables, control flow, functions, lists, and dictionaries, contributing to an overall program completion rate of 90%+ in my section.</li></ul>	

## PROJECTS

<b>Real Time ASL Translator</b>   <i>Next.js, FastAPI, OpenCV, MediaPipe, ElevenLabs</i>	Oct. 2025 – Nov. 2025
<ul style="list-style-type: none"><li>• Developed a real-time ASL recognition and translation app with hand and face tracking for HackHarvard 2025.</li><li>• Built a MediaPipe Hands model with 94% classification accuracy across 25+ gestures using a FastAPI backend.</li></ul>	
<b>Classroom Copilot</b>   <i>Next.js, FastAPI, LangChain, Supabase, Gemini</i>	Jul. 2025 – Sep. 2025
<ul style="list-style-type: none"><li>• Built an AI agentic learning platform for class-wide analytics for and personalized feedback for HackMIT 2025.</li><li>• Developed LangChain agents in FastAPI with Supabase vector store and RAG pipelines for analyzing submissions.</li><li>• Integrated PDF ingestion with LangChain’s PDF loader and vector search for context-aware, structured feedback.</li></ul>	
<b>SpendShield</b>   <i>TypeScript, Next.js, Supabase, Shadcn</i>	Feb. 2025 – Mar. 2025
<ul style="list-style-type: none"><li>• Built a viral social finance app that gamified saving and peer accountability, reaching top 5 at HackIllinois 2025 by increasing projected user retention by 60% through competitive spending challenges and progress sharing.</li><li>• Developed a full-stack system using TypeScript, Next.js, and Supabase, enabling rapid prototyping and supporting 100+ concurrent user actions.</li></ul>	
<b>SVS Lunar Client</b>   <i>C#, Python, Unity, PyTorch</i>	Oct. 2024 – Nov. 2024
<ul style="list-style-type: none"><li>• Developed simulations using Unity’s Machine Learning Agents Toolkit to train AI for space vehicle tasks in diverse environments, reducing live-testing risks and winning the “Interstellar Intelligence” track at BostonHacks 2024.</li><li>• Boosted model performance by 2.3 times through deep reinforcement learning with Python, PyTorch, and Unity, simulating realistic physics for autonomous navigation tasks.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, C/C++, JavaScript, TypeScript, HTML/CSS, SQL, Matlab, Lua  
**Frameworks/Libraries:** React, Next.js, Node.js, FastAPI, Flask, Tailwind, NumPy, Pandas, Sklearn, PyTorch, JUnit  
**Technologies:** Git, Docker, Bash, Linux, AWS, PostgreSQL, Supabase, Cursor, Figma, SolidWorks, Unity, Blender  
**Technical Skills:** DSA, AI & ML, UI/UX Design, CI/CD, Data Visualization, CAD, Game Development, VR/AR  
**Other Skills:** 3D-Modeling, Graphic Design, Editing, Project Management, Social Media Marketing, Teaching