

Education

University of Illinois Urbana-Champaign, IL <i>B.S. in Mathematics and Computer Science</i>	Sept 2025 – May 2028
Northeastern University, MA <i>B.S. in Computer Science</i>	Sept 2024 – May 2025 GPA 3.97/4.00

Experience

Project Leader <i>Lexington Youth STEAM Team</i>	Fall 2020 – Spring 2024 Lexington, MA
<ul style="list-style-type: none">Collaborated with the Town Celebration Committee and created a website to host the Patriots' Day virtual event during the COVID-19 pandemic in 2021. Received 200+ event photos from town residents' submissions. More 🔗Revamped elementary school Parent-Teacher Association website using HTML, CSS, JavaScript, and Bootstrap. More 🔗Analyzed historical grants and notice trends of the grant needs for Community Endowment of Lexington. A record total of \$57,850 was granted to nonprofits and received the most applications for the 2021 grant cycle. Used Python, Pandas, and NumPy. More 🔗400+ hours participation on CS projects to create an impact on the community. Team website 🔗	
Intern <i>Mass General Brigham</i>	Summer 2024 - Present Boston, MA
<ul style="list-style-type: none">Integrated the hospital's electronic health record with retrieval augmented generation (RAG) pipeline to identify patients with dementia. Used Python, Ollama, Microsoft Azure, SQL, and LangChainAchieved 0.927 F1-score by experimenting with various RAG techniques and large language modelsFirst author on the research paper	
Researcher <i>Mass General Hospital</i>	Spring 2024 - Present Boston, MA
<ul style="list-style-type: none">Proposed a framework for objectively measuring the success of chronic pain treatment through movement dataBuilt React Native app to collect accelerometer movement data from patient's phone and used a transformer-based deep learning model to detect changes in patient movement. Used PyTorch	
Teaching Assistant <i>KTByte</i>	Fall 2021 - Spring 2023 Lexington, MA
<ul style="list-style-type: none">Helped students with Java and Processing homework during office hours	

Projects

Schedule Web App	2020 - 2024
<ul style="list-style-type: none">Developed and launched a successful web app to address my high school's confusing schedule. Sustained and improved the app's functionality annually, ensuring a positive user experience1400 registered users and 900 daily active users at the beginning of each school yearMade using ReactJS, Material UI, and Firebase. Hosted on Netlify	
Native Android App	2019 - 2022
<ul style="list-style-type: none">Conceptualized and developed a user-friendly note app for Android that enables users to create, edit, and save notes effortlessly.Published and distributed to various third-party app stores using Catapult.io under the company name Hover Software. 6.7k downloads worldwide with a consistent user base of 30 daily users	

Skills

Languages: Java, Python, SQL, HTML, CSS, JavaScript, Kotlin, C++. Fluent in Mandarin and English.
Tools: Firebase, Azure, Docker, MySQL, PostgreSQL, ReactJS, NextJS, Pandas, NumPy, PyTorch, LangChain, Android Studio