

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

Intern <i>Mass General Brigham</i>	June 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. Responsible for writing methods, results, error analysis, and supplementary information	
Researcher <i>Mass General Hospital</i>	February 2024 - February 2025 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	
Project Leader <i>Lexington Youth STEAM Team</i>	August 2020 – May 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 ↗	
Teaching Assistant <i>KTByte</i>	September 2021 - May 2023 Lexington, MA
<ul style="list-style-type: none">Helped students with Java and Processing homework during office hours	

Projects

Schedule Web App	July 2020 - December 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	June 2019 - August 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: Proficient in 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