

Baoren Liu

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🤖 RoboticReaper

Education

University of Illinois Urbana-Champaign, IL <i>B.S. in Mathematics and Computer Science</i>	Sept 2025 – May 2028 GPA 3.97/4.00
Northeastern University, MA <i>B.S. in Computer Science</i>	Sept 2024 – May 2025 GPA 3.96/4.00

Experience

Research 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	
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

RideList	January 2026 - Present
<ul style="list-style-type: none">Launched a comprehensive rideshare-posting and information-searching platform to reduce current communication redundancies in group-chat format when organizing rides near UIUC. Usage is similar to finding plane tickets instead of UberPrivacy-first features for student drivers and riders. Currently collaborating with local professional drivers for increased usageMade using NextJS, Mantine UI, Google Firebase, Google Cloud SQL, Microsoft Azure	
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	

Awards

- 1st Place** in UIUC's SIGPwny Cybersecurity Club 2025 Fall competition beginner division, and #6/131 in the whole event when ranked against advanced division.

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