

# Baoren Liu

📍 Lexington, MA 📩 baorenl2@illinois.edu ☎ +1 781-457-8199 🌐 baorenliu.com 💬 baoren-liu-a27141344  
👤 RoboticReaper

## Education

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

## Experience

<b>Research Intern</b> <i>Mass General Brigham</i>	<i>June 2024 - Present</i> Boston, MA
◦ 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 LangChain	
◦ Achieved 0.927 F1-score by experimenting with various RAG techniques and large language models	
◦ First author on the research paper. Responsible for writing methods, results, error analysis, and supplementary information	

  

<b>Project Leader</b> <i>Lexington Youth STEAM Team</i>	<i>August 2020 – May 2024</i> Lexington, MA
◦ 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 <a href="#">More ↗</a>	
◦ Revamped elementary school Parent-Teacher Association website using HTML, CSS, JavaScript, and Bootstrap <a href="#">More ↗</a>	
◦ 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 <a href="#">More ↗</a>	
◦ 400+ hours participation on CS projects to create an impact on the community <a href="#">Team website ↗</a>	

<b>Teaching Assistant</b> <i>KTByte</i>	<i>September 2021 - May 2023</i> Lexington, MA
◦ Helped students with Java and Processing homework during office hours	

## Projects

<b>RideList</b>	<i>January 2026 - Present</i>
◦ 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 Uber	
◦ Privacy-first features for student drivers and riders. Currently collaborating with local professional drivers for increased usage	
◦ Made using NextJS, Mantine UI, Google Firebase, Google Cloud SQL, Microsoft Azure	
<b>Schedule Web App</b>	<i>July 2020 - December 2024</i>
◦ 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 experience	
◦ 1400 registered users and 900 daily active users at the beginning of each school year	
◦ Made 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