

Baoren Liu

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🔗 RoboticReaper

Education

Northeastern University
B.S. in Computer Science

Boston, MA
Sept 2024 – Present

Experience

Project Leader

Fall 2020 – Spring 2024

Lexington Youth STEAM Team

- 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
- Revamped elementary school [Parent-Teacher Association website](#) using HTML, CSS, JavaScript, and Bootstrap
- 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. [Summary](#)
- 400+ hours participation on CS projects to create an impact on the community. [Our team's website](#)

Intern

Summer 2024

Mass General Brigham

Boston, MA

- Using electronic health record data (MIMIC-IV) and retrieval augmented generation (RAG) with Generative AI to help diagnose patients based on structured data. Used Python and SQL
- Conducted and presented literature review on applications of chat bot, RAG, and AI in healthcare

Researcher

Spring 2024 - Present

Mass General Hospital

Boston, MA

- Quantify pain measurements scientifically by detecting the difference in patient movement patterns
- Built React Native app to collect movement data from patient's phone
- Able to identify activity category with 90%+ accuracy using multilayer perceptron. Made with PyTorch

Teaching Assistant

Fall 2021 - Spring 2023

KTByte

- Helped students with Java and Processing homework during office hours

Projects

Schedule Web App

2020 - 2024

- 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
- Nearly 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

Native Android App

2019 - 2022

- 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: C++, Java, SQL, JavaScript, HTML, CSS, Kotlin, Python. Fluent in Mandarin and English.

Interests: Video games, tennis, badminton, music, percussion.