

Curie Cha

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Education

Northeastern University, Boston, MA

2022 – 2026 (*Personal Gap Semester, Spring 2024*)

Khoury College of Computer Sciences, Honors Program

Candidate for Bachelor of Science in Computer Science & Biology, Mathematics minor

Computer Science GPA: 3.9/4.0

Coursework: Computational Methods in Bioinformatics, Algorithms & Data, Object Oriented Design, Accelerated Fundamentals of Computer Science

Programming Skills

Languages: Python, Java, SQL, HTML/CSS/JavaScript, R, Julia

Tools: Git, AWS, Docker, BLAST

Frameworks: Django, React, Next.js, NLTK, Gensim

Systems: Windows, MacOS, Linux

Work Experience

Research Informatics Co-op, Tango Therapeutics

July 2024-Present

- Full stack development of Django application connecting scientists to internal and external data warehouse.
- Developed pipeline to integrate third-party experimental assay software into internal application, eliminating manual requests and enabling 100% user-driven computations and experimental data analysis.
- Fine-tuned machine learning model for chemical compound property prediction, informing drug-discovery decisions.

Language and Mind Lab Manager, Northeastern University

Sep. 2023-Aug. 2024

- Designed and coded psychology experiments on dualism and the innateness of dualism for 200+ in-person participants using E-Prime.
- Trained, supervised, and scheduled 20+ research assistants to conduct in-person psychological experiments.

AI and Thoracic Surgery Research Assistant, Massachusetts General Hospital, Boston, MA

Jan. 2023-Jan. 2024

- Labeled major arteries in lower lung lobotomy videos for a machine learning model using CVAT annotation tool.

Leadership and Teaching Experience

ViTAL Healthcare Hackathon Organizing Team, Software Lead, Northeastern University

Sep. 2024-Present

- Define hackathon prompt, integrating real-world issues in healthcare and technology.
- Design and develop hackathon event website using React and Tailwind CSS.

Object Oriented Design/Algorithms Tutor, Northeastern University/Knack Tutoring

May 2024-Present

- Taught students object-oriented design principles and algorithms to complete technical problem sets and projects.

Discrete Structures Teaching Assistant, Northeastern University

May-Dec. 2023

- Guided and explained coursework to students during weekly office hours, graded assignments and exams.

Personal and Academic Projects

Personal Website

- Personal portfolio website using Next.js and Tailwind CSS.

Battleship Player

- 1st place winner of Battleship tournament against 250+ other students in lecture.
- With a peer, developed and programmatically implemented a statistical heatmap algorithm using Java.
- JSON and computer networking utilized to enable multi-player mode across devices.

Bullet Journal Application

- Features for adding tasks, changing color themes, organizing events by time, importance, or tag.
- Using Java and JavaFX, programmatically implemented Model-View-Control pattern.

Extracurricular Experience

Music In Hospitals and Nursing Homes Using Entertainment As Therapy, Volunteer Cellist

Tastemakers Magazine, WRBB 104.9 FM, Live Concert/Event Photographer