

# Lily Shiomitsu

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## EDUCATION

### Northeastern University

Boston, MA

*BS in Computer Science, concentration in Artificial Intelligence, minor in Spanish*

*Sep. 2022 - May 2026*

**Cumulative GPA:** 3.9/4.0

**Awards:** Honors Program, Amelia Peabody Scholarship, Dean's List (all semesters)

**Relevant Coursework:** Algorithms and Data, Machine Learning and Data Mining 1, Object-Oriented Design, Computer Systems, Engineering LLM-integrated Systems, Database Design, Foundations of Cybersecurity

**Activities:** Electric Racing Club (SWE), Chess Club, Symphony Orchestra, NUWIT

## EXPERIENCE

### Software Engineering Intern

May 2024 – Aug. 2024

*Ultimate Kronos Group (UKG)*

*Lowell, MA*

- Developed and optimized backend solutions in Java to address critical software defects and implement new features and updates for UKG's Pro WFM software, enhancing system reliability and functionality
- Resolved customer defects by deploying user applications with Kubernetes and debugging using hot swapping
- Conducted pseudo-locale testing to verify the localization readiness, identifying and resolving issues pre-release
- Created and maintained Swagger API documentation, ensuring accurate representation of backend services

### AI Studio Developer

August 2024 – Present

*Dropbox / Break Through Tech AI @ MIT*

*Cambridge, MA*

- Collaborating with a team of 5 and a mentor to design and implement a travel itinerary LLM for Dropbox
- Contributing to the initial design and development phases, focusing on building an NLP-based system to enhance document parsing and improve user experience

### Teaching Assistant

Sep. 2023 – Present

*Northeastern University*

*Boston, MA*

- Fall 2024: CS 3000 (Algorithms and Data); Fall 2023: CS 1800 (Discrete Structures)
- Held 5 hours of office hours per week to meet individual students for academic support and tutoring
- Assisted in weekly recitations, helping an average of 30 students per session with academic support
- Provided faculty support in grading and reviewing assignments, and answering students' questions on Piazza

### Information Technology Training Co-op

Jan. 2024 – May 2024

*Coverys: Medical Liability Insurance & Risk Solutions*

*Boston, MA*

- Facilitated seamless onboarding sessions for new hires, delivering hands-on introductions to key applications
- Redesigned outdated SharePoint sites to enhance user navigation and updated links to essential resources
- Created engaging articles, videos, and courses for software updates using SharePoint, Camtasia, Snagit, Audiate

## PROJECTS

### Bullet Journal | *Java, Gradle, IntelliJ IDEA, JUnit, JavaFX, GitHub*

- Developed a comprehensive bullet journal application, allowing users to create, load, and customize journals
- Implemented category creation, dynamic progress bar, seamless entry editing, deletion, and task management
- Utilized JSON for data persistence, employing file reader and writer functionalities to store and retrieve data

### Battle Salvo | *Java, Gradle, IntelliJ IDEA, JUnit, GitHub*

- Engineered a dynamic Battle Salvo game supporting both human vs. AI and AI vs. AI gameplay through a proxy server with boards and ships of varying sizes
- Applied MVC architecture to enhance code modularity and maintainability, ensuring a clean and scalable codebase
- Utilized JSON for seamless implementation of AI vs. AI battles, enabling efficient data exchange and processing

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, TypeScript, HTML/CSS, C

**Developer Tools:** Git, Kubernetes, Docker, Postgres, Gradle

**Operating Systems:** MacOS, Windows, Linux