**Beth Shieh**

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**PROJECTS**

**reLaunchHer** | Personal Project | Frontend Development | Backend Development

* Designed and built a web application using **React, Spring Boot, and MySQL** to assist women transitioning back into the workforce by generating personalized job roles and learning paths using OpenAI's API.
* Implemented and tested core functionalities, including the job role recommendation engine, which improved the relevance of suggestions by 30% through user feedback in testing.

**Perfect Olympics Predictor** | Hackathon | Machine Learning | Artificial Intelligence | Large Language Model

* Delivered machine learning models using the Naive Bayes Algorithm to predict medal winners for Paris 2024, with prediction accuracy of over 80% by refining historical Olympic data inputs.
* Combined **Python, Machine Learning, AI, and LLM** in collaboration with a team of 4 engineers to ship the final product within a strict 48 hour deadline.

**Bookstore Inventory Management System** | Personal Project | Backend Development | Data Structures

* Leveraged **C, Python, and MySQL** to build a functional inventory management system that allows users to add books, mark books as read, and manage a reading wish list.
* Implemented sorting algorithms and binary search to optimize the system’s performance, ensuring efficient book retrieval and inventory handling, and utilizes a dataset to simulate a real-world bookstore inventory.

**EMPLOYMENT**

**Teaching Assistant Northeastern University Aug 2024 – Present**

* Facilitate class of 40+ graduate students through office hours, one on one support instruction, lab section instruction, and over 20 hands-on weekly code reviews for Intensive Foundations in Computer Science course.

**Pediatric Physical Therapist Rehab Without Walls Jul 2021 – Dec 2023**

* Coordinated with cross-functional healthcare teams to streamline patient treatment plans, and facilitated weekly meetings with a multidisciplinary team to decrease communication errors by 30%, while mentoring 5 new clinicians through structured feedback and one on one sessions.

**LEADERSHIP**

**Northeastern Peer Mentor** | **Northeastern University** **Aug 2024 – Present**

* Mentored graduate students in technical and professional development, with 100% reported satisfaction and improvements in their networking and coding skills.

**Co-Founder - Decode LeetCode | Northeastern University** **Jan 2024 – Present**

* Organized and facilitated coding challenge meetups, with attendance increasing by 50% within the first three months, helping students enhance their algorithm-solving skills.

**TECHNICAL SKILLS**

**Languages**: Java, Python, C, SQL, MATLAB, HTML, CSS

**Technologies**: Spring Boot, MongoDB, React, Maven, Gradle, Git

**EDUCATION**

**Master of Science in Computer Science, Northeastern University Jan 2024 – May 2026**Courses Completed: *Intensive Foundations of Computer Science, Discrete Structures, Object-Oriented Design, Data Structures and Algorithms, Algorithms (In Progress), Web Development (In Progress)*

**Doctor of Physical Therapy, Northwestern University Feinberg School of Medicine Sept 2018 – Apr 2021**

**Bachelor of Arts in Biology, Northwestern University Sept 2014 – June 2018**