

# Yutong (Daisy) He

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## EDUCATION

**Northeastern University**, Boston, MA

Sept 2021 – Present

**Khoury College of Computer Sciences**

Expected Graduation: May 2025

*MS in Computer Science Candidate, GPA: 3.85/4.00*

Related courses: Data Structures, Algorithms, Object-Oriented Design, Computer Systems, Foundations of Software

Engineering, Web Development, Mobile Application Development, Database Management Systems

**New York University**, New York, NY

May 2015

*MA in Teaching Foreign Language (Mandarin) and TESOL, GPA: 4.00/4.00*

**Beijing Normal University**, Beijing, China

July 2013

*BA in Chinese Language & Literature, GPA: 3.69/4.00*

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, HTML, CSS, TypeScript, R, C

**Relational & Non-Relational Databases:** MySQL, MongoDB, Firebase

**Frameworks:** Node.js, React, LangGraph

**Tools & Platforms:** GitHub, Figma, Jira, Android Studio, Postman, Heroku, AWS Elastic Beanstalk

**Other Skills:** Object-Oriented Design, Agile Scrum

## PROJECTS

### **GPT-Recipe Multi-Agent Application**

*Personal Project*

July 2024

- Developed an innovative multi-agent application using OpenAI API, Tavily API, and LangGraph framework to create personalized recipe books.
- Designed a user-friendly interface for inputting preferences and crafted high-quality, visually appealing recipe layouts.
- Implemented distinct AI agents in the pipeline for searching, curating, writing, critiquing, designing, editing, and publishing recipes.

### **GoalForIt! Goals Tracking and Habits Building Mobile Application**

*Course Project, Northeastern University*

January 2023 – April 2023

- Designed and implemented intuitive user interfaces for various screens.
- Utilized Firebase real-time database to establish seamless data connectivity among users and messages.
- Implemented essential app features such as profile editing, friend management, and notification messaging.

### **RecipeFridge Recipe Creating and Searching Web Application**

*Course Project, Northeastern University*

October 2022 – December 2022

- Designed and implemented UI for multiple key pages, focusing on intuitive navigation and user-friendly interfaces.
- Established robust data connectivity with MongoDB to enable seamless data exchange among users and recipes.
- Executed comprehensive implementation of user management, recipe creation, and friend interaction functionalities.
- Adhered to Scrum Agile methodologies.
- Implemented and rigorously tested RESTful Web Services for data management.

### **Using NLP/Machine Learning for Bibliography Parsing**

*XN Rising Project, Northeastern University & Pfizer*

January 2022 – April 2022

- Collaborated on developing a bibliography parsing tool using ensemble learning, which combines regular expression parsing with machine learning algorithms to significantly enhance accuracy.

## WORK EXPERIENCE

**Pelham Middle School & Pelham Memorial High School**, Pelham, NY

September 2015 – June 2021

*Tenured Mandarin Teacher, Grades 6-12*

- Founded and expanded the Mandarin program for grades 6-12 in Pelham Public School District.