

# Beini Wang

192 Pleasant St, Watertown, MA | wang.beini@northeastern.edu | +1 (781) 652-1305 | LinkedIn: beini-wang | GitHub: bnw04

## EDUCATION

### Northeastern University, Boston, MA

Master of Science in Computer Science Candidate, GPA: 4.0/4.0

Jan 2023 – Expected Dec 2025

Relevant Coursework: Object-Oriented Design, Data Structures, Web Development, Machine Learning, Database Management Systems, Algorithms, Building Scalable Distributed Systems, Fundamentals of Artificial Intelligence, Fundamentals of Cloud Computing

### Bentley University, Waltham, MA

Master of Science in Accountancy, GPA: 3.7/4.0

Sep 2015 – May 2017

Relevant Coursework: Data Modeling, SQL for Analytics, Data-Driven Development with Python

## TECHNICAL SKILLS

### Programming Languages:

Python, Java, C, JavaScript, TypeScript

### Web Technologies:

HTML5, CSS, SASS, jQuery, React, Next.js, Redux, Node.js, Express.js

### Database:

MySQL, MongoDB, Firebase

### Deployment Tools:

Amazon Web Services, Google Cloud Platform, Heroku, Netlify, Docker

### Libraries:

Spring, Swing, Jest, JUnit, Bootstrap, Pandas, NumPy, PyTorch

## WORK EXPERIENCE

### AI Advancement Center - Software Engineering Intern

May 2025 - Aug 2025

Ford Motor Company

Dearborn, MI

- Designed and implemented a custom enterprise search solution to replace Ford's legacy tool, reducing search latency from 20 seconds on a single platform to 10–15 seconds across multiple sources.
- Built a custom Model Context Protocol(MCP) server and client framework leveraging CrewAI and Ford's internal LLMs to enable multi-platform semantic search.
- Deployed the solution on Google Cloud Platform (GCP), integrating backend services with a lightweight React frontend to support interactive user queries.
- Project was selected to be showcased at the Ford AI Annual Conference for its innovation and enterprise-wide applicability.

### Software Engineer Intern

Jun 2024 - Dec 2024

Swapt Inc.

Boston, MA

- Develop scalable web applications for creating and managing online stores and POS systems, similar to platforms like Square and Shopify, with seamless API integration for various e-commerce functionalities.
- Reduced API response time from 500ms to 150ms using AWS Lambda and API Gateway; Configured AWS IAM roles and policies to enforce access control and secure data handling.

### Teaching Assistant in Algorithms and Data

Jan 2024 - May 2024

Northeastern University

Boston, MA

- Led programming labs and provided hands-on coding support in collaboration with the professor.
- Facilitated weekly discussions for 50+ students, simplifying complex algorithms and data structures; Resulted in a 100% pass rate for student repeating the class by conducting one-on-one tutoring sessions.

### Audit Analyst II

Jun 2017 – Jan 2023

Massachusetts School Building Authority

Boston, MA

- Delivered training programs to improve user proficiency and adoption of MSBA's Pro-Pay web application; Partnered with IT to enhance Pro-Pay features and usability through SQL-driven improvements.

## PROJECTS

### Brewery Rating Application | MongoDB, React.js, Redux, Node.js, Render.js, TypeScript, JavaScript, Netlify, Git

Apr 2024

- Built a full-stack web app using MongoDB, Node.js, and React/Next.js with TypeScript and Bootstrap for a responsive UI.
- Boosted user engagement by enabling features like event liking, reviewing, and user profile navigation.

### MedRecord Application | MySQL, Python, Git

Nov 2023

- Engineered a MySQL-based application for clinic appointments and patient record management with CRUD operations, supporting multiple user roles including admin, staff, and patients.
- Implemented diverse interfaces and robust error handling to enhance user experience.

### Image Processing Application | Java, Junit, Swing, Spring Boot, Git

Jul 2023

- Developed a Java-based Image Processing application featuring custom algorithms for pixel manipulation, utilizing Object-Oriented Design principles and the MVC architecture.
- Streamlined backend development and testing by integrating Spring Boot and JUnit, which enhanced team collaboration and quality assurance through effective use of Git.