Beini Wang

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EDUCATION

Northeastern University - Boston, Boston, MA
Master of Science in Computer Science Candidate, GPA: 4.0/4.0   Jan 2023 – Expected May 2025
Relevant Coursework: Object-Oriented Design, Data Structures, Algorithms, Parallel Data Processing, Web Development, Database Management Systems, Fndtns 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 S3/EC2/ELB/DynamoDB, Heroku, Netlify, Jenkins
Libraries:	Spring, Swing, Jest, JUnit, Bootstrap, Pandas, NumPy, Pytorch

WORK EXPERIENCE

Swapt Inc., Boston, MA
Software Engineer Intern   Jun 2024 - Present
- 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.
- Collaborate with frontend and platform teams to design and implement API endpoints, integrate third-party services like Shopify for product management, payment processing, and order tracking.
- Optimize backend APIs, cutting the response time from 500ms to 150ms, using AWS serverless tools like Lambda and API Gateway for scalability.
- Configure AWS IAM roles and policies to enforce access control and secure data handling.

Northeastern University, Boston, MA
Teaching Assistant in Algorithms and Data   Jan 2024 - May 2024
- Collaborated closely with the professor to efficiently lead programming laboratory sessions, where I provided hands-on guidance to students on coding problems.
- Facilitated weekly discussion sessions for over 50 undergraduate students, enhancing their understanding of complex algorithmic concepts and data structures.
- Resulted in a 100% pass rate for student repeating the class by conducting one-on-one tutoring sessions.

Massachusetts School Building Authority, Boston, MA
Audit Analyst II   Jun 2017 – Jan 2023
- Led comprehensive training programs for users on navigating and efficiently utilizing the MSBA's Progress Payment (Pro-Pay) web application, enhancing user competence and system adoption rates.
- Collaborated closely with IT staff to refine and enhance the Pro-Pay using SQL functionality, focusing on usability improvements and feature updates to meet evolving business needs.

PROJECTS

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.

Brewery Rating Application | *MongoDB, React.js, Redux, Node.js, Render.js, TypeScript, JavaScript, Netlify, Git*   Apr 2024
- Developed a full-stack and dynamic web application, utilizing MongoDB for data storage, employing Node.js for a scalable backend and React/Next.js for frontend. Integrated TypeScript, Bootstrap and CSS for inline styling and initial UI/UX design for a robust, intuitive frontend experience..
- Boosted user engagement by enabling features like event liking, reviewing, and user profile navigation.