

# Yahui Zhang

rebeccaz1902@gmail.com | +1 6179097526 | Redwood City, CA | <https://www.linkedin.com/in/yahui-zhang-rebecca/>  
<https://github.com/RebeccaYHZ>

## EDUCATION

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### Northeastern University

Jan 2023–Present

*MS in Computer Science Align*, GPA: 3.8 / 4.0

*Expected Graduation: May 2025*

Relevant Coursework: Web Development, Algorithms, Object-Oriented Design, AWS

### Boston University

Sep 2021–Dec 2022

*Master Degree*, GPA: 3.63 / 4.0

Relevant Coursework: Design Strategy & Software(HTML/CSS), UX Design, Art Design

## TECHNICAL KNOWLEDGE

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

**Tools & Frameworks:** React, Node.js, Express, jQuery, Bootstrap, Django, AWS, JUnit, Git

**Databases:** MySQL, MongoDB

## PROJECTS

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### Petdomus - Python & Django Project

*Northeastern University*

- Architected and developed a robust pet adoption platform using Python, Django, and MySQL; streamlined the adoption process, resulting in a 20% increase in successful matches between animal lovers and shelters/rescues.
- Executed the deployment of a robust administrator system incorporating Role-Based Access Control (RBAC) methodology to safeguard pet information, leading to a 30% decrease in data breaches and ensuring compliance with industry data protection regulations.
- Established a web platform with MVC architecture, including ORM, automated admin interface, URL routing, and templates, leading to a 25% increase in conversion rates and 20% higher user satisfaction.

### DrinkOasis - MERN Project

*Northeastern University*

- Built a feature-rich cocktail website with MERN stack, enabling users to explore bars and manage portfolios; increased user interactions by 35% and registrations by 20%.
- Spearheaded the implementation of Passport.js for user registration and login, optimizing authentication and session management protocols; strengthened security measures, providing secure access to restricted areas and enhancing user experience through seamless and protected interactions.
- Implemented and deployed JavaScript scripts to dynamically render data on web pages, resulting in a 15% reduction in bounce rate and a 20% increase in click-through rates, enhancing overall user experience.
- Overhauled database capabilities to effectively manage data for 100+ users, resulting in a 45% increase in data processing efficiency and seamless user data management for enhanced productivity.

### Café Website - AWS Project

*Northeastern University*

- Hosted a café static website on Amazon S3 bucket, implementing data lifecycle and disaster recovery strategies for optimal data management and recovery processes.
- Deployed an online ordering application on Amazon EC2, creating an AMI and deploying a second instance in another AWS Region for a production environment setup.
- Established a secure networking environment on AWS using Amazon VPC, configuring VPC settings, enabling secure internet access for private resources, and implementing traffic control measures.
- Led optimization of resource access in AWS IAM, integrating custom and managed policies, resulting in 35% efficiency improvement and 15% reduction in unauthorized access.

## WORK EXPERIENCE

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### Longun Agency, Shanghai, China

Sep 2020–May 2021

*Account Executive*

- Directed the formulation of detailed business plans for Lancôm's Q2 2021, employing comprehensive market research and data analysis to identify critical growth avenues and design actionable strategies, driving a 15% surge in sales revenue.
- Directed the formulation of program flow and technical specifications for a social media app in partnership with the software team, aligning project timelines to achieve prompt delivery and exceeding quality benchmarks, leading to a 50% surge in user acquisition metrics.