

Ziyi Huang

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SUMMARY

Seeking a full-time software engineer position.

Results-driven software engineer with 4+ years of experience across internships, research, and projects, including **Java web applications, recommendation systems, and entrepreneurship practice in software development**. Proficient in Java, Python, SQL, HTML, CSS, and JavaScript, with strong programming, problem-solving, and analytical skills.

EDUCATION

New York University , New York, NY	Sep. 2023 - May 2025
M.S. in Computer Engineering, <i>Graduate School of Engineering Scholarship</i>	GPA: 4.0 / 4.0
CUNY - City College , New York, NY	Aug. 2019 - Dec. 2022
B.S. in Computer Science, <i>Dean's List, Research Participant Fellowship</i>	GPA: 3.9 / 4.0

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C++, JavaScript, TypeScript, HTML, CSS

Databases: Relational Databases (MySQL, Postgres) and NoSQL Databases (MongoDB, Firebase)

Web Technologies: AJAX, React.js, Node.js, RESTful APIs, Apache Tomcat, Maven, Java Servlet, Spring Boot, Spring MVC

Tools: AWS EC2, Git (GitHub, GitLab), Jenkins, JUnit, JMeter, Selenium, Eclipse, IntelliJ, VSCode, Elasticsearch, Kafka

Courses: Data Structures and Algorithms, Object-Oriented Design, Distributed Systems (Hadoop, MapReduce), DevOps (Docker)

WORK EXPERIENCE

Software Engineer Intern , Cantor Fitzgerald, New York, NY	Jun. 2022 - Aug. 2022
<ul style="list-style-type: none">Contributed to the Helix Financial System team by maintaining and deploying a scalable, high-volume SaaS-based financial platform for real-time trading for multi-billion-dollar stock loan transactions.Resolved critical bugs and revamped the customized UI layout (React.js, HTML, CSS, JavaScript) by refactoring the codebase to improve customer satisfaction by 15%.Implemented and optimized the cryptocurrency listing verification algorithm to achieve a 10% reduction in runtime.Developed automated UI tests using Python/Selenium to validate navigation elements and reduce manual QA effort by 30%.Achieved a 10% reduction in deployment time by utilizing version control tools (Git, GitLab) and CI/CD pipelines (Jenkins).	
Undergraduate Research Assistant , City College Visual Computing Lab, New York, NY	Jun. 2021 - Apr. 2022
<ul style="list-style-type: none">Practiced Agile methodologies and participated in the full Software Development Life Cycle (SDLC) to design and implement a 3D missile simulation program sponsored by AFOSR, under the supervision of Dr. Zhigang Zhu and Dr. Hao Tang.Developed the missile launch feature (Unity3D, C#) for users to select different 3D missile models and launch parameters.Implemented comprehensive unit testing (NUnit) to achieve 90% code coverage and ensure robust error handling.Verified the JSON output data from the program with the cross-functional team to achieve 98% ground truth annotation accuracy.	

PROJECTS

<u>NexEvent</u>: Java Web Service Development - Personalized Event Search and Recommendation	May 2023 - Jun. 2024
<ul style="list-style-type: none">Designed an interactive web page utilizing AJAX technology (React.js, HTML, CSS, and JavaScript) for users to search events, update preferences, and view recommended events.Implemented a web service with Spring Boot, Spring MVC, and RESTful APIs to handle HTTP requests and responses.Designed algorithms (e.g., content-based recommendation) to improve event recommendation based on favorite records.Built relational (MySQL) to store user data for consistency and migrated event data to NoSQL (MongoDB) for better scaling.Deployed the web service to an AWS EC2 Linux instance to handle 150 queries per second tested by Apache JMeter.	
<u>Autism Bridge</u>: Startup Development - Virtual Reality Interview Training Program	Sep. 2021 - May 2022
<ul style="list-style-type: none">Collaborated with 3+ partner agencies to implement the Virtual Reality Interview Training Program (Unity3D, C#) to achieve a 10% increase in successful local job placement for job seekers with autism spectrum disorder.Innovated the VR navigation system by replacing smooth locomotion with teleportation to reduce motion sickness by 90%.Secured \$25,000 prize money through the Zahn Venture Incubator Software Competition by pitching the prototype to 100+ investors, technology professionals, and students.	