

# Ziyi Huang

(929) 689-5437 || [ziyi.huang.4dev@gmail.com](mailto:ziyi.huang.4dev@gmail.com) || [linkedin.com/in/ziyi-huang-nyc](https://www.linkedin.com/in/ziyi-huang-nyc) || [ziy1.github.io](https://ziy1.github.io) || New York, NY

## SUMMARY

Seeking a full-time software engineer position.

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

## EDUCATION

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

## TECHNICAL SKILLS

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

**Databases:** Relational Databases (MySQL, Oracle) and NoSQL Databases (MongoDB, Firebase)

**Web Technologies:** AJAX, React.js, RESTful APIs, Apache Tomcat, Maven, Hibernate, JPA, Spring Boot, Spring MVC, ASP.NET

**Tools:** Amazon Web Service, Git, GitHub, GitLab, Jenkins, JUnit, JMeter, Selenium, Eclipse, IntelliJ, VSCode, Elasticsearch, Redis

**Courses:** Data Structures and Algorithms, Object-Oriented Design, Big Data (MapReduce, Kafka, Cassandra), DevOps (Docker)

## WORK EXPERIENCE

**Software Engineer Intern**, Cantor Fitzgerald, New York, NY Jun. 2022 - Aug. 2022

- Contributed to the Helix Financial System team by maintaining and deploying a scalable, high-volume SaaS-based financial platform for multi-billion-dollar real-time stock loan transactions.
- Resolved critical bugs (**ASP.NET**, **C#**) and revamped the customized UI layout (**React.js**, **HTML**, **CSS**, **JavaScript**) through systematic code reviews and refactoring to improve customer satisfaction by 15%.
- Implemented and optimized the cryptocurrency listing verification algorithm to maintain low latency in stock loan transactions.
- Developed automated UI tests (**Python**, **Selenium**) to validate navigation elements and reduce manual QA effort by 30%.
- Streamlined deployment processes using **Git**, **GitLab**, and Jenkins **CI/CD** pipelines to reduce deployment time by 10%.

**Undergraduate Research Assistant**, City College Visual Computing Lab, New York, NY Jun. 2021 - Apr. 2022

- Followed **Agile** methodologies throughout the **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 tests (**NUnit**) to achieve 90% code coverage and ensure robust error handling.
- Verified JSON output data from the program with the **cross-functional** team to achieve 98% accuracy in ground truth annotation.

## PROJECTS

**NexEvent: Java Web Service Development - Personalized Event Search and Recommendation** May 2023 - Jun. 2024

- 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 9+ **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**.

**Autism Bridge: Tech Startup Development - Virtual Reality Interview Training Program** Sep. 2021 - May 2022

- 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.
- 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.