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 **entrepreneurial 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, *Graduate School of Engineering Scholarship* — **GPA: 4.0 / 4.0**

CUNY - City College, New York, NY — Aug. 2019 - Dec. 2022
B.S. in Computer Science, *Dean's List, Research Participant Fellowship* — **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

- 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 ensure low latency in stock loan transactions.
- 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

- 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 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 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: 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 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.