Jason Zheng

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Education

Stony Brook University   **Expected Dec 2026**
Bachelor of Science in Information Systems   *Stony Brook, NY*
- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Discrete Mathematics, Scripting Languages, Linear Algebra, Database Management, Systems Administration, Computer Security

Technical Skills

Languages: Python, JavaScript, Java, SQL, HTML, CSS, Ruby
Frameworks & Libraries: React, Node.js, Express, Tailwind
Technologies: Git, MongoDB Atlas, Postman, Render, BlueHost, Replit, MySQL, MS Access

Experience

REBNY   Jul 2024 – Aug 2024
Software Engineering Intern   *Manhattan, NY*
- Drove a **25%** drop in emailed tickets, saving an average of **6 hours** of customer and support-staff inquiries weekly.
- Engineered full-stack **AI lease-chatbot** in **Python** hosted on **Replit** that enabled **instant self-service support.**
- Integrated **OpenAI's API** and **trained** on curated lease FAQ data, cutting average inquiry time by 35%.
- Authored detailed development **documentation**, slashing **onboarding** time and maintenance for new developers.

Projects

Chatty | *React, Node.js, Express, MongoDB, Tailwind*   Jul 2025
- Developed a **responsive full-stack** communication platform with **secure authentication** and **real-time chat/video**, scalable to over **+100 concurrent users** across **global** sessions, and purposed for collaborative language learning.
- Achieved consistent <**200ms** latency across all communication channels, prevented **100%** of unauthorized access attempts during testing, and reduced front-end load times by **40%** using **TanStack Query caching.**
- Implemented token-based authentication with **JWT** and **Bcrypt** and integrated **Stream API** for call/chat functions.

MERN Product Inventory | *React, Node.js, Express, MongoDB*   Jul 2025
- Developed a **responsive** full-stack e-commerce app with light/dark mode toggle, and full CRUD functionality.
- Deployed on **Render** with environment variables and automated builds; achieved **95+ Lighthouse audit scores.**
- Built UI components in React with **hooks** and **component libraries**, achieving **responsive** design across all devices.
- Enhanced inventory tracking from primitive **spreadsheets** to instant product **add/edit/delete functionalities**, cutting management time for small-catalog inventories.

Pirate Gambling App *(HopperHacks Mini-Track Winner)* | *HTML, CSS, JavaScript*   Feb 2025
- Awarded **1st place** in the Treasure Trove of Talent Track at **HopperHacks 2025**, recognized for its innovative concept, engaging seamless gameplay, and effective implementation.
- Utilized **Git** version control to commit **60+ commits** features and bug fixes while maintaining organized clean code.
- Developed a playful pirate-themed website, featuring **interactive games** designed to demonstrate **statistical improbability** and gambling risks through intentional negative player outcomes.

Walmart RFID System | *Java*   Jul 2023 - Aug 2023
- Engineered a **Walmart-inspired** inventory system managing over **100,000 items** using **list-based data structures**.
- Improved inventory lookups and checkout by **35%** through optimized search logic and efficient data storage.
- Implemented core features like **item tracking**, **returns**, and **restocking**, simulating **RFID-based retail workflows**.

Leadership

Theta Tau Professional Engineering Fraternity   Nov 2023 – Present
Web Development Chair
- Co-lead a team of **4** to develop a continuing fraternity website prototype to increase the chapter's digital presence.
- Leveraged modern web technologies including **React**, **JavaScript**, **HTML**, and **CSS** to ensure scalable architecture, responsive design, and seamless user interaction across devices.
- Mentored team members by teaching foundational basic web-development technologies and providing weekly meetings with hands-on support to resolve technical challenges to enhance team motivation and efficiency.