JASON ZHENG

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EDUCATION

Stony Brook University   **Expected May 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, TypeScript, Java, SQL, HTML, CSS
Frameworks & Libraries: React, Node.js, Express, Tailwind CSS, Flask, Bootstrap
Technologies: Git, MongoDB Atlas, **RESTful API Tools** (Postman), **Hosting Tools** (BlueHost, Render, Replit), MySQL

EXPERIENCE

Stony Brook University (MARCOM Department)   Sept 2024 – Present
Front-End Web Development Intern   *Stony Brook, NY*
- Developed websites for various departments using **HTML, CSS, JavaScript, and Bootstrap**, enhancing online visibility for **30,000+ students**, faculty, and external visitors.
- Deployed reusable **CMS components** with consistent front-end styling, streamlining and reducing redundant development.
- Ensured **WCAG-compliant accessibility** standards across HTML/CSS pages, supporting access for students and externals.

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 by engineering a full-stack **AI lease-chatbot** in **Python** hosted on **Replit**, enabling **instant self-service support.**
- Integrated OpenAI API and implemented a RAG pipeline using curated historic FAQ data, reducing inquiry time by 35%.
- Authored detailed development **documentation**, slashing **onboarding** time and maintenance for new developers.

PROJECTS

LiftSafe *(HopperHacks 2026) | Python, TypeScript, React, OpenCV, GeminiAPI, ElevenLabs, Google Mediapipe*   Feb 2026
- Developed a **computer vision** application to give **real-time** voiced **fitness form correction**, capable of **multiple languages.**
- Achieved **100ms** latency and accurate pose detection through **multi-threading** camera feedback and optimizing body angle calculations via angle smoothing.
- Engineered a **data pipeline** to process live frames and capture **body coordinates** to calculate and give **audial** feedback through **ElevenLabs API**, **OpenCV**, and **Google MediaPipe.**

Chatty *| React, Node.js, Express, MongoDB, Tailwind*   Jul 2025
- Engineered a full-stack language platform allowing real-time chat and video for **100+ users**, enhancing language learning.
- Optimized client performance by leveraging **TanStack Query** for intelligent caching of chat history **API** responses, reducing load times on return visits to message threads.
- Implemented token-based authentication with **JWT** and **Bcrypt** and integrated **getstream.io Chat API** for chat/call function.

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.**
- Added instant product add/change/delete features to streamline inventory management workflows for small businesses.

LEADERSHIP

Theta Tau Professional Engineering Fraternity   Nov 2023 – Present
Web Development Head
- 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**, **MongoDB**, and **HTML/CSS** to ensure scalable architecture, responsive design, and seamless user interaction across devices.
- Mentored team members by teaching foundational basic web-development technologies and lead weekly meetings with hands-on support to resolve technical challenges to enhance team motivation and efficiency.