

JUSTIN XIE

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EDUCATION

Stony Brook University

B.S. Information Systems & Applied Mathematics and Statistics

Stony Brook, NY

Expected Graduation Dec 2026

Related Coursework: Data Structures, Object Oriented Programming, Python-Fintech with AI & Cloud, Scripting, Data Analysis

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, Ruby, HTML/CSS, SQL, R, Bash

Libraries/APIs: React, Azure AI Foundry, Next.js, Express.JS, Flask, FastAPI, Pandas, NumPy, Scikit-Learn, Elasticsearch

Developer Tools: AWS, Azure (AKS), Kubernetes, Git, Jira, Confluence, Node.JS, MongoDB, Kibana, Windows PowerShell

WORK EXPERIENCE

Software Engineer Intern

Jun. 2026 – Aug. 2026

Honeywell Technologies

Atlanta, GA

- Built an autonomous AI-SRE system that investigates production Elasticsearch/Kibana alerts and self-heals the **Kubernetes** infrastructure failures, reducing a 15-minute manual triage cycle to seconds and eliminating on-call toil for known-fix incidents.
- Designed a multi-agent investigation pipeline that routes alerts to specialized telemetry agents (logs, metrics, traces), and generates RCAs via **Azure OpenAI**, with confidence scoring driving an automated escalate/approve/auto-remediate gate.
- Engineered node-level capacity validation that evaluates scheduling feasibility on **requests vs. allocatable** rather than live utilization, catching a failure where nodes at 26% CPU usage were 99% reserved and would silently reject every scheduled pod.
- Implemented capacity-aware autoscaling that detects **HPA** ceiling saturation, recalculates replica targets via target-tracking formulas, and provisions additional **AKS** nodes when scheduling capacity is exhausted, resolving a production failure mode native Kubernetes autoscaling cannot handle on its own.

Technology Intern

Jun. 2025 – Aug. 2025

Real Estate Board of New York

New York, NY

- Developed an AI analytics system in **Python/Flask**, integrating with the voiceflow API to process 100k+ chatbot transcripts, surface unanswered customer inquiries, and generate actionable insights for expanding the chatbot knowledge base.
- Implemented hybrid NLP-driven clustering engine using **diffliB SequenceMatcher** and custom keyword extraction, improving related question grouping accuracy by 40% and enabling administrators to train the chatbot through automated/manual curation.
- Assisted with Salesforce and AWS system administration, configuring Salesforce roles/workflows and managing AWS services.

Information Technology Intern

Jul. 2024 – Aug. 2024

NYC Department of Consumer and Worker Protection

New York, NY

- Resolved a critical CrowdStrike crash within 48 hours affecting over 500 employees, using **Windows PowerShell ISE** to diagnose and run customized scripts, preventing further system downtime.
- Managed 3,000+ devices through an inventory database, improved asset tracking and reduced system deployment time by 10%.

TECHNICAL PROJECTS

Pulse | MongoDB, ReactJS, ExpressJS, NodeJS, TypeScript

Jun. 2025 – Aug. 2025

- Architected and developed full-stack **MERN** application with complete CRUD functionality, RESTful API design, and responsive UI components serving dynamic content across desktop and mobile platforms.
- Built file upload system with client-side image processing using **HTML5 Canvas API** to automatically resize/compress photos by 75-90%, implementing error handling, base64 encoding, and 50MB payload optimization for increased performance.

Pair 2 Spare | JavaScript, ReactJS, HTML/CSS, Firebase

Feb. 2025 – Feb. 2025

3rd for sustainability @ HopperHacks '25

- Directed the development of a website for the disabled community to trade/sell single items like shoes, wheelchairs, and gloves.
- Led development in a fast-paced, hackathon environment, learning new technologies while delivering a functional prototype.

LEADERSHIP POSITIONS

Teaching Assistant

Aug. 2025 – Present

SBU Object Oriented Programming

Stony Brook, NY

- Provided programming assistance to 150+ students on OOP concepts and **Java** programming during weekly lab hours.
- Reviewed and gave feedback on programming assignments, labs, and exams to aid course material development.
- Collaborated with instructors to troubleshoot **Java** code, clarify course concepts, and improve student understanding of OOP.

Webmaster & External Professional Development Chair

Dec. 2023 – Present

Theta Tau – Professional Engineering Fraternity

Stony Brook, NY

- Facilitated workshops and service events, aimed to empower students to enhance their skills and readiness in the workforce.
- Managed and updated fraternity's webpage with new members and fraternity's up-to-date information using WordPress.
- Collaborated and worked on the redesign and development of a full-stack MERN website for long-term maintainability.