

# Stanley Zheng

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## EDUCATION

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### Vanderbilt University

*Bachelor of Science in Computer Science and Applied Mathematics*

*Minor in Electrical and Computer Engineering*

Nashville, TN

Aug 2023 – May 2027

### Relevant Coursework

*Computer Architecture, Programming Languages, Data Structures, Discrete Structures, Linear Algebra*

## EXPERIENCE

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### Head Teaching Assistant

*Vanderbilt University*

Jan 2025 – Present

Nashville, TN

- Managed a group of 8 TAs to aid a computer architecture class with over 80 students.
- Provided recommendations for handling grading disputes for homework and quizzes, checking grading status.
- Collaborated with the professor to design biweekly quizzes to help students keep up with course objectives.
- Hosted weekly office hours aiding students with test preparation and homework assignments.

### Research Assistant

*Vanderbilt University*

Oct 2024 – Present

Nashville, TN

- Developed a system using a trusted execution environment to analyze network packets for security-critical operations.
- Designed custom interrupt logic for network actions, using C to create a customized logging system.
- Utilized an AM64B starter kit to test different network protection implementations.

### Software Engineering Intern

*REIDD*

Jun 2024 – Aug 2024

New York City, NY

- Launched various websites, including a property showcasing and a company website, providing access to 100+ customers.
- Developed a full-stack application using Mapbox API and Javascript to highlight amenities around the property.
- Communicated with manager to improve upon website design, increasing customer retention.

## PROJECTS

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### Bus Stop Indicator Board | *PyFirmata, Requests, Microcontrollers*

Aug 2024– Present

- Developed bus tracking system indicating bus locations using LEDs.
- Integrated MTA BusTime API to retrieve real-time bus stop data for over 50 stops.
- Utilized an Arduino and a breadboard to showcase data in a tangible, interactive display.

### Witness | *Next.js, Yarn, Typescript*

Apr 2024– Present

- Contributed to VandyHack's judging platform, a full-stack application used by both participants and judges.
- Collaborated with team members to optimize and refactor React components.
- Revamped display settings on organizer portal, simplifying theme toggle functionality for judges.

### Bridging Seas Website | *SvelteKit, TailwindCSS, Vercel*

Jun 2022 – Jun 2023

- Built and designed the current website, servicing 100+ penpals across the world.
- Utilized SvelteKit's modular design to create components used throughout the website, allowing for easy implementation of future additions.
- Deployed the application to a live production environment using Vercel, ensuring seamless updates and uptime.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript

**Frameworks:** React, Express, Node.js, Flask, SvelteKit

**Developer Tools:** MongoDB, Git, Google Cloud Platform, Visual Studio, Docker, Vercel

**Libraries:** NumPy, pandas, Selenium, BeautifulSoup