Henry Zheng

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EDUCATION

Yale University   New Haven, CT
Bachelor of Science in Computer Science, Bachelor of Arts in Economics   *Aug. 2024 – May 2028*
Incoming Summer 2025 Amazon Software Engineer Intern

EXPERIENCE

Software Engineer   Sep. 2024 – Present
CourseTable   *New Haven, CT*
- Maintain and improve CourseTable, Yale's largest student app and premier course search platform used by 6K+ undergrads, by collaborating on scalable feature development and platform optimization
- Enhanced search engine functionality by integrating an additional location filter mapping Yale's 156 campus buildings to 4K+ cataloged classes, leveraging aggregated university data
- Developing an interactive campus map to visually display estimated commute times, helping students make informed course selection decisions
- Contribute to platform stability and user experience by debugging issues, participating in design discussions, and incorporating user feedback

Product Manager   Sep. 2022 – Jun 2024
Staten Island Technical HS   *Staten Island, NY*
- Led development of a Vue, Tailwind and Django-based course platform streamlining enrollment for 1K+ students
- Built a web app with Express, MongoDB and Docker, enabling admins to track attendance of 100+ staff
- Delegated GitHub tasks, maintained servers running NGINX and Ubuntu, authored documentation

Information Technology Technician   Sep. 2023 – Aug 2024
Staten Island Technical HS   *Staten Island, NY*
- Communicated with teachers and teammates to resolve open tickets in a timely manner
- Assessed and troubleshooted computer problems brought by students, faculty and staff
- Maintained upkeep of school computers, printers, classroom equipment, cable management and tracked inventory
- Updated and ensured functionality of school's 300+ laptops for rentals and online test taking

Web Development Intern   Feb. 2023 – Apr 2023
TygaSmart Systems   *New York, NY*
- Collaborated asynchronously across time zones to implement UI/UX for an upcoming tracking service
- Curated and compiled an extensive library of open-source 2D and 3D assets for the company's floor planner
- Evaluated website accessibility using WAVE developer tools, suggested layout changes and fixes

PROJECTS

Course Selection Platform | *TypeScript, Python, Vue, Django, Tailwind CSS*   Sep. 2023 – Jun 2024
- Developed a full-stack web application using with Django serving a REST API and a Vue frontend
- Implemented Google OAuth 2.0 with school emails for a SSO (single sign-on) experience
- Visualized statistics for guidance counselors and school administrators to interpret course trends
- Migrated the project's frontend from JavaScript over to TypeScript with 5K+ total line changes
- Worked interchangeably between the frontend and backend development teams to meet deadlines

Digital Hall Pass | *JavaScript, Python, Vue, Ionic, Docker, Git*   Jun 2023 – Oct 2024
- Simultaneously developed a web and mobile application replacing physical hall passes with a QR Code system
- Independently handled OAuth 2.0 authorization flows using a FastAPI backend to avoid rate limiting
- Reflected real-time database changes using the Google Sheets API for access by school administration

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, HTML, CSS, JSX, C, Racket, R
Frameworks: Nuxt, Vue, React, Svelte, Ionic, Django, FastAPI, Tailwind CSS
Developer Tools: Git, Docker, VS Code, PyCharm, Google Colab, Figma, Netlify, Vite, MongoDB, Supabase, NGINX
Libraries: pandas, NumPy, transformers