

Jason Vu

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Education

Santa Clara University

Bachelors of Science in Web Design and Engineering

Santa Clara, CA, USA

Expected June 2024

- **Major GPA:** 3.7/4.0
- **Relevant Coursework:** Data Structures, Web Usability, Web Development, Senior Design, Game Studies Research

Experience

Undergraduate Lab Research Assistant and Mentor

Santa Clara University's Media Lab, Santa Clara University

June 2021 - Present

Santa Clara, CA, USA

- Taught students **Python/JS** data scraping with **APIs** to sentimentally analyze **6.6k+ Reddit/Twitter/TikTok** posts
- Use **Jupyter Notebook** to obtain, train, and group dataset of **13k+ tweets** from relevant and controversial hashtags

Projects

Senior Design Capstone | Human-Computer Interaction, Design Thinking, Web Applications, Usability Testing

- Craft user guides with team of 4 to help health researchers scrape/analyze data for millions of **Google Play apps**

College Discord Network (GitHub) | HTML/CSS/JS, Node JS, TypeScript, Deno, Digital Ocean, Cloudflare

- Automated email verification system with chatbot, saving **52 hours** of manually authenticating **over 1,100 students**
- Deployed **OAuth 2.0 dashboard** for members to select from **140+ college roles**, falling under **50RPS API** rate limit
- Devised community help system with **quick.db database**, logging **130+ ticket interactions** from server members

Undergrad Engineering Courseload Optimizer (GitHub) | Python

- Generated spreadsheet of **over 2,180 courses** fulfilling multiple core requirements across **6 academic quarters**
- Instantly identified **4,970% more** reliable courseload options against outdated university data from **2 years** ago

Personal Portfolio Pipeline (GitHub) | React JS, Bootstrap CSS, LaTeX, GitHub Actions

- Leveraged **CI/CD pipeline** with **GitHub Actions** to expedite deployment of **React JS** site along with **LaTeX** resume

Wildfire Emergency Resources Website (GitHub) | HTML/CSS/JS, Google Analytics, Google Lighthouse

- Coded server-less site with minimalist **UI** and dark mode feature with team of **4** assisting locals affected by wildfires
- Site boasts **20ms** request/response time and exceeds **SEO** metrics in meta information and page/link structure

College Admissions Calculator (GitHub) | Vue JS, Bulma CSS, Python, Google App Engine

- Developed search-indexed **Vue** app gauging overall admissions into local college with **11ms** request/response time
- Utilized **Selenium** to scrape eligibility requirement thresholds for **130+ majors** into comprehensive table
- Decreased load times by **62%**, page size by **78%**, and **HTTP** requests by **92%** against original college site

Twitter RSS Feed Scraper (GitHub) | Node JS

- Scripted app allowing users to scrape XML feeds from **Nitter** as Twitter no longer hosts RSS feed
- Avoided ads, prevented **IP/JavaScript** fingerprint tracking, and bypassed **60RPS Twitter API** rate limit

Volunteering

Undergraduate Engineering Peer Mentor | Mentor Collective

- Mentored engineering freshmen by offering insight on academic coursework, student life, and project ideas.

Technical Skills

Programming Languages: HTML/CSS, JavaScript, TypeScript, Python, PHP

Frameworks/Libraries: Vue JS, Flask, Bootstrap CSS, React JS, Selenium Webdriver

Technologies: Node JS, Linux/Unix, REST APIs, GitHub, OAuth 2.0, Google Analytics/Lighthouse

DevOps: Git, GitHub Actions, Snyk, CI/CD, Google Cloud Platform, Digital Ocean, Cloudflare

Outside Interests: Classical Piano/Guitar, Church Accompaniment, Open Source, Consumer Tech