

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

June 2021 - Present

Santa Clara University's Media Lab, Santa Clara University

Santa Clara, CA, USA

- Taught **3** students **Python/JS** data scraping with **APIs** to sentimentally analyze **6.6k+ Reddit/Twitter/TikTok** posts
- Will submit team paper to conference: offer big data analysis of negative sentiments in **Twitter** game communities
- 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

- Year-long team project to empower non-technical researchers to conduct systematic app reviews on mobile stores
- Provide end-user guides for mental health researchers to scrape/analyze metadata 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**
- Developed **OAuth 2.0 dashboard** for members to select from **140+ college roles**, staying below Discord's rate limit
- Devised community help system with **quick.db database**, logging **130+ ticket interactions** from server members

Undergrad Engineering Courseload Optimizer (GitHub) | Python

- Optimized engineering course selection process using school's course availability **API** and **hashmap algorithms**
- Generated spreadsheet of **over 2,180 courses** fulfilling multiple requirements across **6 academic quarters**
- Identified **4,970% more** reliable courseload options against outdated university data

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

- Coded with team of **4** developers to craft site assisting locals affected by California's 2020 Bay Area wildfires
- Developed server-less site with minimalist **UI** and dark mode feature for conserving phone battery in emergencies
- Site boasts **20 ms** 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 app for prospective students to gauge admission chances into majors at a state college
- 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 former site

Twitter RSS Feed Scraper (GitHub) | Node JS

- Developed command-line app allowing users to scrape **XML** feeds from **Nitter** as **Twitter** no longer hosts **RSS** feed
- Avoids ads, prevents tracking of **IP** and **JavaScript** fingerprint, and bypasses rate limits originally imposed by **Twitter**

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, Google Analytics/Lighthouse

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