Jason Vu

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Education

Santa Clara University   Santa Clara, CA, USA
Bachelors of Science in Web Design and Engineering   *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 students **Python**/**JS** data scraping with **APIs** to sentimentally analyze **6.6k+ Reddit**/**Twitter**/**TikTok** posts
- Drafting conference paper on detecting negative sentiments and sarcasm in **Twitter** game communities with **ML**
- 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*
- 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**
- 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- Instantly identified **4,970% more** reliable courseload options against outdated university data from **2** years ago

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** reqeuest/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 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*
- Created command-line script 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 **60RPS Twitter API** rate limit

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