Jason Vu

408-655-9707 | jvu@scu.edu | linkedin.com/in/jason-anh-vu | github.com/JAVAB3ANS | javab3ans.github.io/portfolio

Education

Santa Clara University — Santa Clara, CA, USA
Bachelors of Science in Web Design and Engineering — *Expected June 2024*

- **Major GPA**: 3.7
- **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 team of 3 students to setup project environment, obtain API credentials, and recursively scrape comment threads for sentimental analysis across Reddit, Twitter, and TikTok platforms
- 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 dashboard allowing students to select from 140+ college-oriented roles, staying under Discord's global rate limit
- Devised community help system with quick.db database manager, logging over 130 successful interactions between student members and server staff

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- Identified 4,970% more reliable courseload options against outdated university data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