Jason Vu

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Education

Santa Clara University   Santa Clara, CA, USA
B.S. Web Design and Engineering   *June 2024*
- **Major GPA**: 3.7
- **Relevant Coursework**: Data Structures, Community-Based Engineering Design, Web Usability, Web Development, Senior Design, Game Studies Directed Research

Experience

Undergraduate Lab Research Assistant and Mentor   June 2021 - September 2022
Santa Clara University's Media Lab, Santa Clara University   *Santa Clara, CA, USA*
- Recursively scraped comment threads with Python/JS to analyze sentiments across Reddit, Twitter, TikTok posts.
- Wrote end-user guides teaching teammates to setup project environment, obtain API credentials, deploy scripts.
- Will submit team paper to ICA 2023 conference offering quantitative insight into negative sentiments in online game communities using Jupyter Notebook to obtain/train/group dataset of 13k+ tweets from relevant hashtags.
- Earned Most Valuable Intern 2x within the Santa Clara Media Lab's founding cohort under Dr. David Jeong, Ph.D.

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.
- Craft technical documentation assisting mental health researchers with scraping and analyzing metadata for millions of Google Play apps containing keywords like "cognitive behavioral therapy" and relevant terms to understand mobile ecosystem.

College Discord Network | *HTML/CSS/JS, Node JS, TypeScript, Deno, REST APIs, Linux, Digital Ocean, Cloudflare, Git/GitHub*
- Created and maintained online community for over 1,100 students and 30 clubs/organizations since pandemic.
- Pair-programmed Discord JS chatbot with verification system using REST API, secured against school domain with OAuth 2.0, providing sleek front-end for students to manage their Discord roles without premium software.
- Devised help ticket system with quick.db, promoting accessible communication between server staff and students.

Undergrad Engineering Courseload Optimizer | *Python (Tkinter GUI, os, requests, csv), REST APIs, CSV*
- Optimized engineering course selection process using school's course availability API and hashmap algorithms.
- Enabled students to generate spreadsheet of over 2,180 courses which fulfill multiple requirements from Summer 2021 to Fall 2022 (6 quarters), identifying 4,974% more reliable options against outdated university data.

Wildfire Emergency Resources Website | *HTML/CSS/JS, Google Analytics, Google Lighthouse, Git/GitHub*
- Pair-programmed site helping locals affected by Northern California's Bay Area wildfires in 2020.
- Developed minimalist UI with dark mode toggle option for conserving battery in emergencies.
- Site is server-less with 20 ms response time and exceeds SEO metrics in meta information and page/link structure.

College Admissions Calculator | *Vue JS, Bulma CSS, Python, Google App Engine, Linux, Git/GitHub, REST APIs*
- Developed search-indexed app backend (Flask) and frontend (HTML, Bulma CSS, and Vue JS) for students to calculate admission chances into general programs and/or engineering majors at San Jose State University.
- Utilized Selenium to scrape eligibility thresholds for 130+ majors into comprehensive table within user-friendly interface, decreasing load times by 62%, page size by 78%, and HTTP requests by 92% against former site.

Twitter Feed RSS Scraper | *Node JS (node-fetch, fs, xml-formatter), REST APIs*
- Developed Node JS command-line app allowing end-users to scrape XML feeds from Nitter as Twitter no longer hosts RSS feed, avoiding ads, preventing tracking of IP and JavaScript fingerprint, and bypassing rate limits.

Technical Skills

Programming Languages: HTML/CSS, JavaScript, TypeScript, Python, PHP, Java, C, Verilog
Frameworks: Vue JS, React JS, Express JS, jQuery, D3.js, Material UI, Flask, Bootstrap CSS
Technologies: Node JS, Linux/Unix, REST APIs, Selenium, GitHub, OAuth 2, Nginx, Google Analytics/Lighthouse
DevOps: Git, GitHub Actions, Snyk, CI/CD, Google Cloud Platform, Digital Ocean, Cloudflare