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
- **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*
- 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.
- 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 against school domain with Discord JS chatbot, saving 52 hours of manual user authentication of over 1,100 students within online community.
- Developed server roles dashboard with Discord API secured by OAuth 2.0, enabling members to select from over 140 Discord roles while staying under Discord's global rate limit of 50 requests per second.
- Devised help ticket system with quick.db database manager, logging over 130 successful interactions, driving overall satifaction between server staff and students.

Undergrad Engineering Courseload Optimizer (GitHub) | *Python (Tkinter GUI, os, requests, csv)*
- 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- Identified 4,970% more reliable courseload options against outdated university data.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 (selenium, time, requests, flask), 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 (node-fetch, fs, xml-formatter)*
- 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/Libraries: Vue JS, Material UI, Flask, Bootstrap CSS, React JS, jQuery, D3.js, Selenium Webdriver
Technologies: Node JS, Linux/Unix, REST APIs, GitHub, OAuth 2, Nginx, Google Analytics/Lighthouse
DevOps: Git, GitHub Actions, Snyk, CI/CD, Google Cloud Platform, Digital Ocean, Cloudflare