Jason Vu

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Education

Santa Clara University   Santa Clara, CA, USA
B.S. Web Design and Engineering, Minoring in Studio Art   *June 2024*
- **Major GPA**: 3.7
- **Relevant Coursework**: Data Structures, Digital Logic Design, Tech and Communication, Graphic Design, Community-Based Engineering Design, Web Usability, Web Development

Experience

Senior Capstone Design Project Assistant   September 2022 - Present
Santa Clara University's Human Computer-Interaction Lab, Santa Clara University   *Santa Clara, CA, USA*
- Recruited by Dr. Kai Lukoff, Ph.D. as a junior to support year-long senior design team with prototyping web service.
- Develop basic documentation for non-technical researchers to scrape Google Play metadata with open-source to develop basic documentation to conduct systematic reviews of app ecosystems in areas like mental health and privacy concerns.

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

Personal Portfolio | *React JS, Bootstrap CSS, GitHub Actions, Google Lighthouse*
- Leveraged CI/CD pipeline to deploy Latex resume and React JS components to dynamic, web-responsive portfolio.

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 2,182 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.
- Exceeded Google Analytics's average site performance benchmarks for Average Session Durations (2:12 min.); Number of Sessions Per User (2.63); 461 Sessions; and 757 Page Views.

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.

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, Deno, 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