

# 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.
- Expedite process for mental health researchers to scrape and analyze metadata for millions of Google Play apps containing keywords like "cognitive behavioral therapy" and relevant terms.

### 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 quick response time of 20 ms and exceeds SEO metrics regarding meta information, page structure, and 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