

# Jason Vu

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## Education

### Santa Clara University

Bachelors of Science in Web Design and Engineering

Santa Clara, CA, USA

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

Santa Clara University's Media Lab, Santa Clara University

June 2021 - Present

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 college-oriented Discord roles while staying under Discord's global rate limit of 50 requests per second.
- Devised kiosk-like help system with quick.db database manager, answering and logging over 130 successful interactions, driving overall satisfaction 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 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, 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