

# 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:** 3.7/4.0
- **Relevant Coursework:** Abstract Data Structures and Types, Computer Science 1: Intro to Program Structures, Logic Design, Community-Based Engineering Design, Web Technologies, Web Usability, Web Development

## Experience

### Undergraduate Lab Research Assistant and Mentor

June 2021 - Present

*Santa Clara University's Media Lab, Santa Clara University*

*Santa Clara, CA, USA*

- Taught students **Python/JS** data collection with **APIs** to sentimentally analyze **6.6k+ Reddit/Twitter/TikTok** posts
- Use **Jupyter Notebook** to obtain/train/group dataset of **13k+ tweets** from controversial social media hashtags

## 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 user guides with team of 4 to help health researchers scrape/analyze data for millions of **Google Play apps**

### College Discord Network (GitHub) | *HTML5/CSS/JS, Node JS, TypeScript, Deno, Digital Ocean, Cloudflare*

- Automated email verification system with chatbot, saving **52 hours** of manual authentication of **over 1,100 students**
- Deployed **OAuth 2.0 web service** for members to select from **140+ college roles**, falling under **50RPS API** rate limit
- Devised help desk system with **quick.db database**, logging **130+ ticket interactions** from server members

### Undergrad Engineering Courseload Optimizer (GitHub) | *Python*

- Extracted metadata from **2,180+ courses** fulfilling core curriculum for impacted engineering school majors
- Conducted information retrieval of **4,970% more** course options against outdated university data from **2 years** ago

### Personal Portfolio Pipeline (Github) | *React JS, Bootstrap CSS, LaTeX, GitHub Actions*

- Leveraged **GitHub Actions CI pipeline** to automatically deploy my resume and portfolio with **Git** version control

### Wildfire Emergency Resources Website (GitHub) | *HTML5/CSS/JS, Google Analytics, Google Lighthouse*

- Coded server-less site with minimalist **UI/UX**, dark mode feature with team of **4** assisting locals affected by wildfires
- Site boasts **20ms** request/response time and exceeds **SEO** metrics in meta information and page/link structure

### College Admissions Calculator (GitHub) | *Vue JS, Bulma CSS, Python, Google App Engine*

- Developed search-indexed web app gauging overall admissions into local college with **11ms** request/response time
- 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 original college site

### Twitter RSS Feed Scraper (GitHub) | *Node JS*

- Scripted command-line app allowing users to scrape XML feeds from **Nitter** as Twitter no longer hosts RSS feed
- Avoided ads, prevented **IP/JavaScript** fingerprint tracking, and bypassed **60RPS Twitter API** rate limit

## Volunteering

### Undergraduate Engineering Peer Mentor | *Mentor Collective*

- Mentored engineering freshmen by offering insight on academic coursework, student life, and project ideas.

## Technical Skills

**Programming Languages:** HTML5/CSS, JavaScript, TypeScript, Python, PHP

**Frameworks/Libraries:** Vue JS, Flask, Bootstrap CSS, React JS, Selenium Webdriver

**Technologies:** Node JS, Linux/Unix, REST APIs, GitHub, OAuth 2.0, Google Analytics/Lighthouse

**DevOps:** Git, GitHub Actions, Snyk, CI/CD, Google Cloud Platform, Digital Ocean, Cloudflare

**Outside Interests:** Classical Piano/Guitar, Church Accompaniment, Open Source, Consumer Tech