

# Jason Vu

408-655-9707 | [jvu@scu.edu](mailto:jvu@scu.edu) | [linkedin.com/in/jason-anh-vu](https://www.linkedin.com/in/jason-anh-vu) | [github.com/JAVAB3ANS](https://github.com/JAVAB3ANS) | [javab3ans.github.io/javab3ans](https://javab3ans.github.io/javab3ans)

## Education

### Santa Clara University

B.S. Web Design and Engineering, Minors in Computer Engineering and Studio Art

Santa Clara, CA, USA

June 2024

- **Major GPA:** 3.7
- **Relevant Coursework:** Abstract Data Types and Data Structures, Digital Logic Design, Tech and Communication, Basic Graphic Design, Community-Based Engineering Design, Web Development

## Experience

### Senior Capstone Design Project Assistant

Santa Clara University's Human Computer-Interaction Lab, Santa Clara University

August 2022 - Present

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 app for future non-technical researchers to conduct systematic reviews on mobile app ecosystems.
- Scrape metadata from Google Play with open-source tools to develop baseline understanding for non-technical researchers to understand features/practices within apps in domains like mental health or privacy.

### Undergraduate Research Assistant

Santa Clara Media Lab, Santa Clara University

June 2021 - September 2021

Santa Clara, CA, USA

- Implemented web scraping in Python/JS for sentiment analysis of behaviors, trends, and digital patterns of Reddit, Twitter, and TikTok posts, parsing comment threads recursively and storing/cleaning metadata within CSVs.
- Wrote documentation guiding teammates to setup project environment, obtain API credentials, deploy scripts.
- Earned Most Valuable Intern within the Santa Clara Media Lab's founding cohort under Dr. David Jeong, Ph.D.

## Projects

### Personal Portfolio | React JS, Bootstrap, Python, GitHub Actions, Google Lighthouse, Discord Webhooks

- Created mobile and desktop responsive portfolio using React JS and Bootstrap, optimized with Google Lighthouse.
- Leveraged CI/CD GitHub workflow pipeline to receive code-pushing updates via Discord webhooks and deploy dynamically generated LaTeX resume and React JS components to portfolio for easier recruiter access.

### University Discord Network | Node JS, Express JS, RESTful APIs, JSON, Google Forms/Scripts, Linux, Raspberry Pi

- Created and maintained online community-based network for over 1,100 students and 30 clubs/organizations.
- Pair-programmed automated Discord JS chatbot with verification system integrating Google Scripts and Express JS server to leverage Discord API for adjusting students' nicknames/roles based on their Google Form responses.
- Devised ticket log system using quick.db offering accessible communication between users and server moderators.

### University Engineering Double Dip Courses Matrix Generator | Python (Tkinter GUI, os, requests, csv), RESTful APIs, CSV

- Streamlined course registration process for engineering undergrads using Santa Clara's CourseAvail API and hashmap algorithms.
- Developed GUI script allowing students to generate detailed CSV matrix of 2,182+ double dip course offerings per quarter, yielding around 4,974% more reliable options against outdated university requirements data.

### Santa Clara Unit Complex Fires Webpage | HTML/CSS/JS, Google Analytics, Google Lighthouse, Git/GitHub

- Pair-programmed website assisting local individuals affected by Northern California's Bay Area wildfires in 2020.
- Developed simple, minimalist UI with a dark mode toggle option for conserving battery in times of 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, RESTful APIs

- Developed search-indexed app with Flask as backend and HTML, Bulma CSS, and Vue JS as frontend for students to calculate their admission chances into general programs and/or engineering majors at San Jose State University.
- Utilized Selenium to scrape specific eligibility thresholds for over 130 majors into comprehensive table for user-friendliness as the former site did not employ a responsive design, accessibility, and user interface.

## Technical Skills

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**Programming Languages:** HTML/CSS, JS, Python, PHP, Java, C, Verilog

**Frameworks:** Vue JS, React JS, Express JS, jQuery, Material UI, Flask, Bootstrap CSS,

**Technologies:** Node JS, REST APIs, Selenium, Git, GitHub, Wordpress, Latex

**DevOps:** GitHub Actions, CI/CD, Google Cloud, Google App Engine, Linux