# 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 Project** | *Human-Computer Interaction, Design Thinking, Web Applications, Usability Testing*
- Empower diverse, non-technical researchers to conduct systematic app reviews for millions of **Google Play apps**
- Employ **AGILE** and **SCRUM** development methods to define team goals for projects, initiatives, and weekly sprints

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- Conducted information retrieval of **4,970% more** course options against outdated university data from **2** years ago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