

# Jason Vu

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## Education

### Santa Clara University

Santa Clara, CA, USA

Bachelors of Science in Web Design and Engineering, minoring in Computer Science and Engineering

Expected June 2024

- **Major GPA:** 3.7/4.0
- **School Involvements:** SCU ACM, SCU Media Lab, SCU Human-Computer Interaction Lab, Mentor Collective
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Digital Logic Design, Community-Based Engineering Design, Web Usability, Web Development, Software Engineering

## Experience

### Undergraduate Media Lab Research Assistant and Mentor

June 2021 - Present

Santa Clara University

Santa Clara, CA, USA

- Taught students **Python/JS** data collection with **APIs** to sentimentally analyze **6.6k+ Reddit/Twitter/TikTok** posts
- Used **Twitter API v1.1**, **TextBlob**, **Matplotlib** to quantitatively study user behaviors of **9.8k** game community tweets

### Web Content Management Intern

September 2018 - May 2019

VMware

Palo Alto, CA, USA

- Built real-time portal deliverable with **VMware's VMVault content management system** outlining the Global Sales Department's key initiatives, vision, scope, recent accomplishments, solidifying reputation with their partners
- **Wireframed** and implemented site banners, tabs, and meeting minutes for **9** department profiles with **HTML/CSS**
- Consulted/interviewed internal business stakeholders and opened IT tickets to troubleshoot ad-hoc site issues

## Projects

### College Discord Network ([GitHub](#)) | [HTML/CSS/JS](#), [Node.js](#), [TypeScript](#), [Deno](#), [DigitalOcean](#), [Cloudflare](#), [Nginx](#)

- Administered online forum helping **1,100+ students, 35+ clubs**; made publicly discoverable on **Discord** platform
- Automated verification system via chatbot to save **52 hours** of manual authentication for **over 95% of students**
- Deployed REST web service with **OAuth** for members to select **140+ college roles**, staying below **Discord** rate limit
- Hosted with **DigitalOcean** and remote-proxied with **Nginx** to handle backend requests from **Cloudflare** domain
- Devised help desk system with **Quick.db database**, logging **130+ ticket interactions** from server members

### Undergrad Engineering Course Information Scraper ([GitHub](#)) | [Python](#), [CourseAvail API](#)

- Extracted metadata from school API yielding **1,570+ courses** fulfilling core curriculum for impacted engineer majors
- Conducted information retrieval of **2,111% more** course options against outdated university data from **2** years ago

### 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 stayed below **60RPS Twitter API** rate limit

### Personal Portfolio Pipeline ([Github](#)) | [React.js](#), [Bootstrap](#), [LaTeX](#), [GitHub Actions](#)

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

## Awards

### 1st Place Proficient Level Prize Winner | [Association for Computing Machinery \(ACM\) Summer Challenge 2022](#)

- Pitched **scalable**, user-friendly solution to 30+ club members to safeguard millions of college **Discord communities**
- Scored and assessed highly in aspects of tech, polish, innovativeness, and project completeness out of 9 teams

## Technical Skills

**Programming Languages:** HTML, CSS, JavaScript, TypeScript, Python, PHP

**Frameworks/Libraries:** Vue.js, Flask, Bootstrap, React.js, Selenium Webdriver

**Technologies:** Node.js, Linux, Unix, REST APIs, GitHub, OAuth 2.0, Databases, CMS

**DevOps:** Git, GitHub Actions, Snyk, Codacy, CI/CD, Google Cloud Platform, DigitalOcean, Cloudflare