

# 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
- **School Involvements:** [SCU ACM](#), [SCU Media Lab](#), SCU Human-Computer Interaction Lab, Mentor Collective
- **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 Media Lab

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 game community hashtags

### Web Content Management Intern

September 2018 - May 2019

VMware, Inc.

Palo Alto, CA, USA

- Built comprehensive, real-time portal 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 various business stakeholders and opened IT tickets to troubleshoot ad-hoc site issues

## Projects

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

- Managed [online forum](#) helping **1,100+ students**, **35+ clubs**; made [publicly discoverable](#) on entire [Discord](#) platform
- Automated verification system via chatbot to save **52 hours** of manual authentication for **over 95% of 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- Conducted information retrieval of **4,970% more** course options against [outdated university data](#) from **2** years ago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 auto-deploy my resume and portfolio on commits with **Git** version control

### 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 under **60RPS Twitter API** rate limit

## Awards

### 1st Place Proficient Level Prize Winner | [ACM Summer Challenge 2022](#)

- Presented/demoed live, **scalable O(n)**, user-friendly [solution](#) to 30+ club members and board to safeguard millions of college **Discord communities**, highly scoring in aspects of tech, polish, innovativeness, and project completeness

## Technical Skills

**Programming Languages:** [HTML/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](#), [Databases](#), [CMS](#)

**DevOps:** [Git](#), [GitHub Actions](#), [Snyk](#), [Codacy](#), [CI/CD](#), [Google Cloud Platform](#), [Digital Ocean](#), [Cloudflare](#)