

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 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** portal's structure and functionality upon seeking stakeholder feedback; customized banners, tabs, and meeting minutes for each department's profile with **HTML/CSS** and consulted IT to troubleshoot site issues

Projects

Senior Design Capstone Project | *Human-Computer Interaction, Design Thinking, Web Apps, Usability Testing, SCRUM*

- Empower diverse, non-technical researchers to conduct app literature reviews for millions of **Google Play apps**

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 email verification system via chatbot to save **52 hours** of manual authentication for **over 95% 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- Conducted information retrieval of **4,970% more** course options against outdated university data from **2 years** ago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

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: 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