

# 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 WAVE + Imaginarium Lab, SCU HCI Lab, Mentor Collective
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Logic Design, Community Based Engineering Design, Web Usability, Web Development, Software Engineering, Computer Networks

## 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
- Established that extremism of community controversies had little effect on average gameplay statistics of the game

### Web Content Management Intern

September 2018 - May 2019

VMware

Palo Alto, CA, USA

- Consulted internal business stakeholders to build real-time portal deliverable with **VMware's VMVault CMS**
- Outlined the Global Sales Department's comprehensive key initiatives, vision, scope, and recent accomplishments
- **Wireframed** and implemented site banners, tabs, and meeting minutes for **9** department profiles with **HTML/CSS**

## 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

### College Safe Walk App (ACM-INRIX Hackathon) (DevPost) | [React.js](#), [Node.js](#), [PHP](#), [MySQL](#), [AWS](#), [Google Maps API](#)

- Pair-programmed fullstack app within a day to streamline experience for escorting college individuals on/off campus
- Utilized **React** with **Google Maps API** to pinpoint current walkee location and offer chat between walker and walkee
- Used **PHP/MySQL** for collecting/handling contact information as existing school program doesn't use this tech base

## Awards/Research

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

- Finalized out of 9 teams in delivering scalable project solution safeguarding millions of **Discord communities**

### Data Research Participant | [Embody + SCU Imaginarium's Spatial Audio Frontier Research](#)

- Contributed **3D facial scans** to Embody's database to accurately predict future **HRTF data** across individual gamers
- Promoted **data collection** of immersive sound experiences for games, music, film, and XR as an exclusive participant

## 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, MySQL, CMS

**DevOps:** Git, GitHub Actions, Snyk, Codacy, AWS, DigitalOcean, Google Cloud Platform, Cloudflare