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   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**, handling over **130+ user inquiries** from server members

Undergrad Engineering Course Requirements 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*

Awards / Research

1st Place Proficient Level Prize Winner | *Association for Computing Machinery (ACM) Summer Challenge 2022*
- Finalized out of 9 teams in delivering *scalable solution* to potentially safeguard millions of **Discord communities**

Data Research Participant | *Embody + SCU Imaginarium's Spatial Audio Frontier Research*
- Contributed **3D facial scans** to research 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

Skills

Technical 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