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

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*

Safe Walk Web App (INRIX Hack - ACM @ SCU) (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

Personal Portfolio Pipeline (GitHub) | *LaTeX, GitHub Actions, Git*
- Leveraged **GitHub CI/CD 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, MySQL, CMS
DevOps: Git, GitHub Actions, Snyk, Codacy, AWS, DigitalOcean, Google Cloud Platform, Cloudflare