Jason Vu

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Education

Santa Clara University   Santa Clara, CA, USA
B.S. Web Design and Engineering, Minoring in Studio Art   *June 2024*

- **Major GPA**: 3.7
- **Relevant Coursework**: Abstract Data Types and Data Structures, Digital Logic Design, Tech and Communication, Basic Graphic Design, Community-Based Engineering Design, Web Usability, Web Development

Experience

Senior Capstone Design Project Assistant   August 2022 - Present
Santa Clara University's Human Computer-Interaction Lab, Santa Clara University   *Santa Clara, CA, USA*

- Recruited by Dr. Kai Lukoff, Ph.D. as a junior to support year-long senior design team with prototyping web service.
- Scrape Google Play metadata with open-source tools to develop basic documentation for non-technical researchers to understand features/practices and conduct reviews within app ecosystems regarding mental health or privacy.

Undergraduate Research Assistant   June 2021 - September 2022
Santa Clara Media Lab, Santa Clara University   *Santa Clara, CA, USA*

- Implemented web scraping in Python/JS for sentiment analysis of behaviors, trends, and digital patterns of Reddit, Twitter, and TikTok posts, parsing comment threads recursively and storing/cleaning metadata within CSVs.
- Wrote end-user guides teaching teammates to setup project environment, obtain API credentials, deploy scripts.
- Will submit team paper to ICA 2023 conference offering quantitative insight into negative sentiments in online game communities using Jupyter Notebook to obtain/train/group dataset of 13k+ tweets from relevant hashtags.
- Earned Most Valuable Intern 2x within the Santa Clara Media Lab's founding cohort under Dr. David Jeong, Ph.D.

Projects

Personal Portfolio | *React JS, Bootstrap, GitHub Actions, Google Lighthouse, Discord Webhooks*

- Leveraged CI/CD GitHub workflow pipeline to receive code-pushing updates via Discord webhooks and deploy dynamically created Latex resume and React JS components to web-responsive portfolio for easier recruiter access.

College Discord Network | *HTML/CSS/JS, Node JS, TypeScript, Deno, REST APIs, Linux, Digital Ocean, Cloudflare, Git/GitHub*

- Created and maintained online community-based network for over 1,100 students and 30 clubs/organizations.
- Pair-programmed Discord JS chatbot and member verification system with REST/HTTPS API, authenticated against school domain with OAuth 2.0, providing sleek interface for users to self-assign and manage their Discord roles.
- Devised ticket log system using quick.db offering accessible communication between users and server moderators.

University Engineering Double Dip Courses Matrix Generator | *Python (Tkinter GUI, os, requests, csv), REST APIs, CSV*

- Streamlined undergrad course registration process using school's course availability API and hashmap algorithms.
- Developed Python Tkinter GUI allowing students to generate detailed CSV matrix of over 2,182 double dip course offerings per quarter, yielding around 4,974% more reliable options against outdated university requirements data.

Bay Area Unit Complex Fires Webpage | *HTML/CSS/JS, Google Analytics, Google Lighthouse, Git/GitHub*

- Pair-programmed website assisting local individuals affected by Northern California's Bay Area wildfires in 2020.
- Developed simple, minimalist UI with a dark mode toggle option for conserving battery in times of emergencies.
- Exceeded Google Analytics's average site performance benchmarks for Average Session Durations (2:12 min.); Number of Sessions Per User (2.63); 461 Sessions; and 757 Page Views.

College Admissions Calculator | *Vue JS, Bulma CSS, Python, Google App Engine, Linux, Git/GitHub, REST APIs*

- Developed search-indexed app backend (Flask) and frontend (HTML, Bulma CSS, and Vue JS) for students to calculate their admission chances into general programs and/or engineering majors at San Jose State University.
- Utilized Selenium to scrape specific eligibility thresholds for 130+ majors into comprehensive table within user-friendly interface, decreasing load times by 62%, page size by 78%, and HTTP requests by 92% against the former site.

Technical Skills

Programming Languages: HTML/CSS, JavaScript, TypeScript, Python, PHP, Java, C, Verilog
Frameworks: Vue JS, React JS, Express JS, jQuery, D3.js, Material UI, Flask, Bootstrap CSS
Technologies: Node JS, Deno, Linux/Unix, REST APIs, Selenium, GitHub, OAuth 2, Nginx, Google Analytics/Lighthouse
DevOps: Git, GitHub Actions, Snyk, CI/CD, Google Cloud Platform, Digital Ocean, Cloudflare