KAYLEIGH VU

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Performance-driven frontend-focused full-stack developer with industry experience creating intuitive, data-driven web applications to enhance user experience and support business goals. Skilled in building interactive dashboards, streamlining data retrieval processes, and designing responsive interfaces. Known for a strong technical foundation, user-centered mindset, and a can-do attitude that thrives in fast-paced environments.

TECHICAL SKILLS

Web Development: ReactJS, HTML, CSS, JavaScript, Figma

RDBMS: AWS Redshift SQL, MySQL

Programming Language: Python, C, C++

Data Visualization: Tableau, Power BI, Python (Matplotlib, Seaborn)

ML/AI: Python (Scikit-Learn, OpenMV, Pytorch)

EDUCATION

Santa Clara University **Santa Clara, CA**

School of Engineering – *Computer Science Engineering* Sept 2021 – June 2025

- **Relevant Courses:** Abstract Data Types and Structures, Object-Oriented Programming, Artificial Intelligence, Machine Learning & Data Mining, Software Engineering, Web Usability

AWARD / LEADERSHIP EXPERIENCE

Awards: Colorado School of Mines Mathematics and Science Award (2020)

Leadership:

- Society of Women Engineers (2021-2025): **Vice President (2023-2024)**
- Santa Clara University Women's Club Ultimate Team (2021-2025): **Captain (2023-2024)**, **Social Chair (2022-2023)**

WORK EXPERIENCE

NVIDIA Corporation **Santa Clara, CA**

Operations Data Systems Analyst Intern Jan 2025 – Present

- Developed frontend of internal consolidated data platform with React JS and Python for quality and engineering teams to perform report search, monitor component failure alerting in statistical plots
- Researched demand planning and forecasting tools through competitive audits to guide UI/UX decisions for the internal data platform, identifying best practices to enhance usability and support data-driven operations workflows
- Built E2E Yield Review dashboard for operations group executives to monitor GB200 Blackwell first pass yield, last pass yield, failure pareto and cycle time from assembly-test to ODM by using AWS RedShift SQL, Tableau, AWS Glue and Python
- **Technologies:** ReactJS, NodeJS, Figma, Python, GitLab, AWS RedShift SQL, Tableau, PowerBI, AWS Glue

Whirlpool Corporation **Benton Harbor, MI**

Commercial Laundry V&V Automated Software Testing WERLD Intern June 2024 – Aug 2024

- Implemented a software automated testing system using camera-based computer vision, enabling object and feature recognition, resulting in a 98.74% reduction in annual testing costs
- Collaborated with internal users to understand usability needs and improve accessibility and efficiency of automated testing tools
- **Technologies:** MicroPython, OpenMV, C++, Arduino

Internet of Things Research Lab **Santa Clara University**

Student Researcher June 2023 – Sept 2023

- Analyzed Software Defined Networking using Arista switches and the Linux Terminal
- Developing extensive knowledge of the Linux Terminal's commands, enabling the collection and analysis of packet data
- **Technologies:** Linux, Terminal

St. Vrain Valley School District Innovation Center (SVVSD) **Longmont, CO**

Watson Assistant Developer February 2020 – September 2021

- Building virtual chatbots for local clients using IBM's Artificial Intelligence Watson Assistant Program
- **Technologies:** IBM Watson AI

PROJECTS

CSEN 174 Software Engineering – *SCU CoursePlanner Web App* **Santa Clara University**

- Collaborated with backend team members to build a responsive front-end interface to enhance user experience and streamline the process of a 4-year course planning web application for all university students through responsive design and intuitive UI components
- **Technologies:** ReactJS, NextJS, TailwindCSS, Figma, Jira

CSEN 163 Web Usability – *Virtual Thrift Buddy Web App* **Santa Clara University**

- Led the development of the web app built that promotes mindful consumption by helping users find nearby thrift stores and browse real-time inventory via APIs, and virtually try on clothing using AR to reduce transportation emissions and encouraging sustainable fashion choices
- **Technologies:** HTML, CSS, JavaScript, Figma, Jira

Senior Design – *EMG Vocal Translations* **Santa Clara University**

- Led data collection and user research for an EMG-based system that uses facial sEMG signals and machine learning models to translate silent speech into phonemes for users with speech impairments
- Conducted interviews, developed signal collection protocols, and annotated EMG datasets to support machine learning model development
- **Technologies:** Python, Notion, Google Surveys, Google Colab