

Riley Heike

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EDUCATION

Santa Clara University

Santa Clara, CA

Computer Science and Engineering, BS / GPA: 3.9

September 2022 - Expected June 2026

- University Honors Program, Bronco Scholarship (merit-based)
- Involvements: Alpha Kappa Psi, ACM, Sports Business Club (Co-President), SCU Quantitative
- Relevant Courses: Advanced Programming, Advanced Data Structures & Algorithms, Object-Oriented Programming, Embedded Systems, Logic Design, Operating Systems, Artificial Intelligence, Probability

WORK EXPERIENCE

Seattle Children's Hospital

Seattle, WA

Clinical & Translational Research Assistant

June 2024 – September 2024

- Led development of a web app to reduce provider workload by prioritizing patients based on urgency
- Collaborated with an agile team using sprints to develop a dynamic React application with TypeScript
- Coordinated with clinicians and IT teams to gather requirements and incorporate feedback

Seattle Children's Hospital

Seattle, WA

Research Assistant

June 2024 – September 2024

- Served as tech lead for a research team studying the effectiveness of ear transplants for microtia surgeries
- Produced and processed 3D scans of ears, importing them into 3D Slicer software for analysis
- Quantified deep tissue layers of ear scans to evaluate treatment efficacy, comparing results across variables

Santa Clara University

Santa Clara, CA

Front Desk Assistant

September 2023 - June 2024

- Utilized communication and problem-solving skills to respond to and resolve resident issues effectively
- Coordinated check-ins and check-outs, maintaining accurate records and efficient documentation practices
- Scheduled and facilitated maintenance requests and follow-ups addressing inquiries and concerns of students

PROJECTS

Capital Insights - INRIX Hack 2023 Winner

- Orchestrated 3-person team to create a web app utilizing Express.js to assess retail property listings based on foot traffic, pricing, and other dynamic factors, placing 1st out of 300+ participants
- Designed UI using a Vue.js app with HTML/CSS/JS, to create an elegant display with dynamic rendering
- Creatively sourced data from retail listing websites through web scraping using Puppeteer, and processed data through complex statistical algorithms to assess the quality of listings with respect to location

Bronco Swap – Hack 4 Humanity 2024

- Developed an online student marketplace in an Agile 4-person team, employing version control with Git
- Leveraged Firestore and Firebase Realtime Database for efficient, scalable data storage and retrieval
- Engineered intuitive, responsive, component-based front-end and UI/UX design using Vue3 and Axios
- Implemented OAuth 2.0 authentication for user sign-ins, and a real-time Chat Engine for user communication

Project Safe Water – Hack 4 Humanity 2023 Finalist

- Led a 6-person team to develop a website tracking water quality and availability across 48 states
- Combined Python application using Flask with government APIs to create an efficient data-fetching process
- Implemented a dynamic, user-friendly, and visually appealing front-end interface using HTML/CSS/JS

LEADERSHIP ROLES

Finary

Santa Clara, CA

University Ambassador

October 2022-January 2023

- Networked and formed connections with local business/investing clubs over possible opportunities
- Acted as a liaison between company and university, giving feedback on the needs/interests of SCU students
- Strategized with company executives to identify key market segments and plans for reaching new investors

SKILLS | INTERESTS

Skills: Python, C, C++, HTML/CSS/JavaScript, React, TypeScript, Vue.js, Node.js, Firebase, Verilog, Adobe Suite, MATLAB, 3D Slicer, R, Front-end Development, Data Analytics, Probability and Statistics