Sakshi Konnur

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EDUCATION

M.S. in Computer Science | **University California Santa Cruz** | **Santa Cruz, CA**   **Sept 2025 - Present**
Relevant Courses: Data Structures and Algorithms, Formal Methods

B.S. in Computer Science | **University California Santa Cruz** | **Santa Cruz, CA** | **GPA:** 3.98/4.0   **Sept 2022 - July 2025**
Cruzhacks 2023 Sustainability Award Winner
Relevant Courses: Data Structures and Algorithms, Analysis of Algorithms, Computer Architecture, Computer Networks, Computer Security, Distributed Systems, Machine Learning, Natural Language Processing, Software Engineering, Computational Models, Functional Programming, Discrete Math, Vector Calculus.

High School Diploma | **Mission San Jose High School** | **Fremont, CA**   **GPA:** 3.82/4.0   **Aug 2018 - June 2022**
ANOVA Hacks 2021 Best Connectivity & Social Networking Winner

TECHNICAL SKILLS

Programming Languages: Python, C, JavaScript, HTML, CSS, React
Development Frameworks & Libraries: Next.js, React.js, React Native, Expo, Flask, NumPy, Pandas, Keras
Other: Firebase, Supabase, Git, Docker, GitHub Projects, Slack, Jira, Amazon Web Services (AWS)

EXPERIENCE

Software Development Intern | **Arsenal Biosciences Inc.**   **Jan 2025 - June 2025**
- Created an **Experiment Visualization Tool** to streamline the **planning** and **management** of high-throughput **cancer research** experiments by providing an **intuitive, interactive interface** for working with 96 and 384-well plates
- Collaborated with a team of 10, ensuring that we had **shared product vision**, **prioritization** of features, and **alignment with user needs** and project goals.
- I focused on utilizing the **React Flow** and **dagre** libraries to **present experiment plates on a canvas-like interface**.

Grader | **Computer Architecture, Intro to Computer Networks** | **UC Santa Cruz**   **Sept 2024 - Dec 2024**
- Responsible for **grading homework assignments** for **over 300 students** weekly in Computer Architecture and Intro to Computer Networks, supporting a **smooth learning experience** for all students.

PROJECTS

Product Owner | **Axon - Mind Mapping Tool** | **Intro to Software Engineering**   **Sept 2024 - Dec 2024**
- Led a **SCRUM** team as **Product Owner** to develop an interactive concept-mapping app that lets users plot and connect ideas, with a pop-up window for detailed notes using React and Supabase.
- **Collaborated** with a team of five to deliver key functionalities, applying meticulous **attention to detail** and **adaptability** to user needs.
- Crafted a detailed **release plan** and managed **sprint milestones**, ensuring organized, diligent, and timely progress across four two-week sprints.

Replicated Key-Value Store | **Project for Distributed Systems**   **Sept 2024 - Dec 2024**
- Implemented a **fault-tolerant, causally consistent replicated key-value store** supporting **distributed state synchronization** across replicas in **Python**.
- Used causal metadata in the form of **vector clocks** to ensure clients view a **consistent state** of the store, even during replica failures.
- Packaged the service as **containerized instances** using **Docker** for seamless deployment and scalability.