SUKRIT DEV DHAWAN

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EDUCATION

SAN FRANCISCO STATE UNIVERSITY   **Jan 2022 - May 2025**
Bachelor of Science in Computer Science (Junior, 5th Semester)   **GPA: 4.0**
Coursework – Data Structures and Algorithms, Software Engineering, Operating Systems, Algorithms, Discrete Mathematics

SKILLS

Programming – Java, C++, C, Python, Javascript, HTML, CSS   **Database** – MySQL, MongoDB
Framework – Express.js, Handlebars, React.js, Flask, Node.js   **Languages** – English, Hindi, Sanskrit, Japanese

PROJECTS

HUMIFY | *Python, Javascript, Hume API, Spotify API, React.js, Chakra, Flask* | CalHacks 10.0 - [Devpost](#)
- Integrated Hume's Facial Emotional Expression Model and Spotify's API to analyze a user's real-time emotional reaction to music, enabling dynamic song recommendations based on the user's emotional response
- Developed a system capable of detecting and interpreting 48 different emotions in real time, assigning scores to calculate the user's affinity towards songs, thereby enhancing the accuracy of tailored song recommendations.

Aquamate | *Javascript, HTML, CSS, MERN stack, AWS* | [Aquamate](#)
- Developing a user-friendly web app for aquarium enthusiasts with an extensive marine life encyclopedia featuring 40+ articles
- Implemented an intuitive aquarium builder tool enabling users to design tanks by selecting flora and fauna
- Features include dynamic search filter functionality based on user selections, fish compatibility, and visual tank volume adjustments for enhanced user experience

ORORO | *YouTube Replica Web Application* | *JavaScript, Express.js, HTML, CSS, MySQL*
- Developed a web app with user authentication & session management, enabling users to securely login, post content, & comment
- Implemented bcrypt for password encryption and utilized a MySQL database for user, post, and comment management

File System | *C, Linux*
- Developed a miniature file system in a team of 4 for a class project. Focused on making and removing directory entries
- Implemented bit map and extents for the free space management and created custom directory entries

Word Blast | *File parser tool with multithreading* | *C, Linux*
- Achieved a significant n-fold performance enhancement by integrating multithreading functionality (n = # of threads)
- Implemented mutex locks to safeguard critical sections in the code to ensure seamless thread synchronization

WORK EXPERIENCE

Instructional Student Co-Assistant & Grader, *SFSU Supplemental Instruction Program (taught in Java)*   August 2022 - Present
- Co-crafted supplementary materials, including problem sets, engaging activities, and insightful discussion topics, to enrich students' understanding of *Data Structures and Algorithms (CSC 220)*, complementing the content covered in parent coursework
- Specialized in delivering comprehensive instruction on different implementations of data structures in Java

CS Lab Manager, *SFSU*   Jan 2023 - Present
- Managed laboratory operations, equipment maintenance, and safety protocols, ensuring the lab's efficient daily functioning

LEADERSHIP EXPERIENCE

Board Member, *Association for Computational Machinery Chapter at SFSU*
Algorithms Officer and former Engagement Officer
- Conduct engaging weekly workshops, fostering collaborative problem-solving and algorithm mastery among participants
- Organize social gatherings aimed at boosting student engagement and enhancing foot traffic

Board Member, *SF Hacks*
Logistics Lead and former Sponsorship Lead
- Coordinate all aspects of the SFSU Annual Hackathon, including logistics, prize allocation, schedule creation, budget administration, and the provision of catering and refreshments for participants
- Proactively managed engagement with numerous sponsors and companies, providing regular updates to the team and the board