Sachita Jnanesh Rayapati

(510) 693-8190, <u>sachitav03@gmail.com</u> , <u>LinkedIn: Sachita Rayapati</u> , <u>Github: Sac</u> EDUCATION	hitav03
University of California, Irvine B.S. in Computer Science and Engineering	GPA 3.3 March 2025
COURSEWORK	
Compilers and Interpreters, Computer Networks, Cryptography, Data Structure Implementation and Analysis, Data Structures, Electronic Devices and Circuits, Intermediate Programming, Network Analysis, Organization of Digital Computers.	
SKILLS	
Languages: Bash, C, C++, CSS, HTML, Java, JavaScript, Python, VHDL	
Tools and Frameworks: Flutter, Git, JUnit + Mockito, Mailchimp, ReactJS, TensorFlow Lite	
Embedded Systems & Hardware Design: ATmega32, AVR Microcontrollers, Digital Circuit Design, Raspberry	Pi
Web Development: API Integration, DOM Manipulation, UI/UX Design	
Platforms: Adobe Acrobat, Canva, Microsoft Excel, Microsoft Word	
WORK EXPERIENCE	
Student Coordinator Arroyo Vista, UCI Student Housing, Irvine, CA	2023-24
Automation: Developed Python and SQLite3 scripts for random selection processes and data managem	
Email Marketing: Designed WCAG-compliant newsletters using Canva and Mailchimp for accessibility	and engagement.
A/B Testing: Optimized UCI Housing website content by analyzing call-to-action effectiveness. Website Manager Marketing Crew TedxYouth@VSA	2020-21
Website Wanager Warketing Crew redx rourn@vsA Web Development: Designed and built a JavaScript, HTML, and CSS-based website aligned with brand in	
Event Management: Developed a ticketing platform for seamless event registration.	activity.
PROJECTS	
Sleep Quality Monitoring System (Ongoing) Leveraging sound analysis and sensor data to monitor and impr	rove sleep patterns.
Sound Analysis: Detecting snoring, sleep apnea, and disturbances via decibel monitoring.	
Sensor Integration: Utilizing microphones, respiratory, and heart rate sensors.	
Data Analytics: Implementing sound analysis software for sleep insights and environment optimization	۱.
	otember 2024- March 25
UI Design: Creating a responsive interface for a two-way mirror or transparent display panel.	
Embedded Systems: Integrating a Raspberry Pi for full system control.	
Voice Control: Implementing Amazon Alexa for hands-free functionality. API Integration: Connecting real-time data sources like Spotify and WeatherApp.	
Flutter Al Integration Project	July 2024
Machine Learning: Integrated TensorFlow Lite for real-time image classification.	July 2024
UI/UX Design: Leveraged Flutter's widget library for seamless cross-platform performance.	
Embedded Systems Music Player	March 2024
AVR Programming: Developed a music player in C with keypad-based song selection.	
Microcontroller Debugging: Validated real-time response on an ATmega32.	
Pipelined Accelerated Object Locator	November 2022
VHDL Development: Designed a multi-stage pipelined datapath with optimized control logic.	
Testing & Verification: Created VHDL testbenches for synchronization and clock cycle management. Greedy Ants Hackathon Project Front End (Website creator and manager) Developer Irvine, CA	February 2022
Web Development: Built a recipe search engine using Python, JavaScript, and HTML.	rebluary 2022
API Integration: Enabled dynamic recipe generation from minimal ingredient sets.	
UI/UX Design: Enhanced user engagement with an intuitive, responsive interface.	
LEADERSHIP AND COMMUNITY SERVICE	
Tara Ayog Website Management: Developed and maintained a crowdfunding platform.	2020-21
Fuel-A-Dream Assisted in fundraising campaigns and outreach.	2019-20
ASHA Foundation Tracked logistical data for campaign stays and designed awareness campaigns.	2013-20
People Tree Foundation Taught Mathematics and Programming to underprivileged students during Covid.	2010-13
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