



SAKETH VISHWANATHAM

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CAREER OBJECTIVE:

Seeking to apply my skills and knowledge in a globally reputed organization to contribute towards achieving organizational and personal professional goals.

S. No	Qualification	Institute	Board / University	Year	GPA or Percentage
1	B. Tech (ECE)	VNR VJIET	JNTUH	2021-25	7.46 (Pursuing 7 th sem)
2	Intermediate	Ratna Junior College	TSBIE	2019-21	86.2%
3	SSC	Slate – The School	TSBSE	2019	9.2

TECHNICAL SKILLS:

Programming languages	C, Python, Java, SQL
Tools & Platforms	MATLAB, Arduino, Raspberry pi, Eagle, Kicad, Mentorgraphics
Web Technologies	HTML, CSS, JS, Flask

INTERNSHIPS:

- ❖ Undergone 4-week long internship in the field of speech processing at Speech Processing Lab at IIIT Hyderabad from 29th May 2023 to 30th June 2023, learned about handling speech data sets, role of MFCCs, neural networks and applying clustering methods. During this internship I worked upon stutter data sets to identify Stutters in a speech signal, built speaker recognition model and speaker diarization model.
- ❖ Worked as a product development Intern for 7 months at KLVIN.AI which is helping me in learning IOT technologies, Flask and GIT. In this internship I am working on developing a IOT Device which helps in monitoring the health of the electric motor by interfacing sensors to raspberry pi and send the sensor data to webserver and SQL lite database.
- ❖ Worked as a project intern for 8 weeks at the Smart Wireless Application and Networking Lab (SWAN Lab), IIT Kharagpur, on an industrial live project by TATA Steel, Jamshedpur. Integrated sensors with ESP32 and implemented MQTT/SMQTT protocols, and presented data on AWS for real-time analysis. Developed a Raspberry Pi gateway using SQLite for data storage and contributed to PCB designing.
- ❖ Currently interning as a Supply Chain Researcher at Unistring Tech Solutions, gaining expertise in analyzing and understanding technical requirements for system design and integration. Skilled in identifying and specifying modules and components for both subsystems and full system architectures. Collaborates closely with cross-functional teams ensuring seamless integration from concept to execution.

PROJECTS:

IOT Project – Real Time Tsunami Warning System Using Wave Buoys

- Developed a real-time tsunami warning system using wave buoys with HW290/GY87 sensors and SX1278 LoRa modules to measure wave parameters and enable long-range communication.

- Transmitted sensor data via LoRa to a SiWx917 gateway, which securely relayed it to an AWS EC2 instance using MQTT, storing it in an SQLite database for analysis.
- Implemented a machine learning model to predict tsunami events and displayed real-time results on a web platform for timely alerts to communities and decision-makers.

IOT Project – Smart Monitoring Of Crops with Raspberry Pi

- To modernize the agriculture sector with latest technologies like IOT and Machine Learning, developed a project which counters problems such as crop intrusion, inadequate lighting and insufficient electricity.
- Using a camera which records when intrusion is detected by the laser security, using LDR modules and LEDs to counter the in inadequate lighting, capacitive soil moisture sensor to know the moisture content of the soil and automatically pump the water into the farm and powered the complete system with a solar panel to evade insufficient electricity problem.

Web Application - Cricket Stats

- Developed a Python and Django based application to visualize cricket league statistics, offering insights into seasons, matches, teams and players.
- Enabled public access to published blogs, fostering content sharing and user engagement.

IOT Project – Air Quality Monitoring and It's Purification

- Lead a team of two and displayed the air quality index factors using sensors like MQ135, DHT11, GP2Y1014 sensors and even presented a way to purify the polluted air using HEPA filter, active carbonated filter and UV filter.
- Presented the air quality data on a web dashboard and purified it when the air quality data indicate poor conditions.

IOT Project – Smart Attendance using Raspberry Pi

- This is a IoT project using RASPBERRY PI 3B+ which is used as a face recognition system and store attendance.
- It analyses mathematically the incoming image without any margin of error, and it verifies that the biometric data matches the person who must use the service or is requesting access to an application, system, or even building.

IOT Project – Surveillance Robot

- An automated car with a camera attached to it which can be controlled through Wi-Fi also.
- Can be used for surveillance & even can be used in drainages or places where humans cannot reach.
- Movement of the car is with L298 motor driver connected to a ESP32 cam module that shows the vision of the robot.

CERTIFICATIONS:

❖ Successfully completed workshops on:

- PCB Design and Application Development, organized by the Department of Electronics and Communication Engineering, VNRVJIET, Hyderabad, from December 19, 2022, to December 20, 2022.
- Drone Simulation and Assembling, organized by the Department of Electronics and Communication Engineering in collaboration with Pavaman Aviation, from July 12, 2023, to July 15, 2023.

- ❖ Successfully participated in and completed Online Internship Program on Programming with Arduino Uno and Raspberry Pi with Radar Sensors for IoT Applications, held from May 29, 2023, to June 23, 2023.
- ❖ Successfully completed certification in "Programming in Java" through NPTEL (National Program on Technology Enhanced Learning).
- ❖ Successfully completed certification in "Introduction to Internet of Things" through NPTEL (National Program on Technology Enhanced Learning) placing in the top 5%.
- ❖ Completed the "Introduction to Internet of Things" course by CISCO Networking Academy.
- ❖ Completed the "Introduction to Networking" course authorized by NVIDIA and offered through Coursera.

ACHIEVEMENTS:

Co-Curricular:

- ❖ Won 2nd place in hackathon at HACKWAVE organized by SNIST.
- ❖ Won 1st place in hackathon at Convergence2K23 among 30 teams for “Air Quality Monitor and Its Purification” organized by VNR VJIEET.
- ❖ Won 1st place in Project Expo MICROCOSM in MGIT for “Smart Attendance using Raspberry PI”.
- ❖ Won 1st place in INNO-VA-THON at VNR VJIEET organized by ISOI and IEEE RAS student chapter.
- ❖ Won 1st place in Hardware Hackathon in “Convergence 2k23R” at VNR VJIEET for “Smart Monitoring Of Crops”.
- ❖ Won 1st place in Techathon in “HAVANA’24” at GITAM for “Smart Monitoring Of Crops using Raspberry PI”.
- ❖ Participated in IOT SPRINT 2k22 at VNRVJIEET with the project “Surveillance Robot”.
- ❖ Participated in SUDHEE 2k22 at CBIT with the project “Smart Parking System”.

Extra-Curricular:

- ❖ Volunteered for 3 years with Street Cause, actively participating in various community service initiatives.
- ❖ Served as a Coordinator for Street Cause's Paw (Pets Are Wonderful) program for 1 year, organizing events and activities aimed at animal welfare.
- ❖ Contributed as a Photographer for Street Cause's ORGINATE project for 1 year, capturing moments and stories to raise awareness about social causes.
- ❖ Secured 1st place in freestyle, underwater, relay and water polo at annual sports tournament 2021-2022 held at Secunderabad Club.
- ❖ Secured 2nd place in freestyle and breaststroke at Hyderabad Inter-School Youth Swimming Championship – 2019 held at AQUATIC PHENOMENON.
- ❖ Secured 2nd place in chess at Hyderabad Inter-School Completion held at YMCA.

STRENGTHS	Adaptability	Problem Solving	Leadership	Empathy	Creative Skills	Passion for Technology
HOBBIES	Photography	Playing chess, swimming	Crafts from waste	Listening to music	Drawing	Event Management

PERSONAL DETAILS:

Date of Birth : 18-09-2003	Languages Known : English, Hindi, Telugu
Gender : Male	Aadhaar : 9388 5456 9091
Father's Name : V Madan Kumar	PAN : CFRPV5115B
Nationality : Indian	Passport No. : W8733496
Address : 3-6-563/2/1, Vishwa Bhavan, Himayat Nagar, Hyderabad – 500029	

DECLARATION:

I hereby declare that the above mentioned information is true to the best of my knowledge and that I will be responsible for any deviation from the truth of these facts.

PLACE: Hyderabad

DATE: 17-11-2024

(SAKETH VISHWANATHAM)