SAHANA S

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EDUCATION

B.E. Electronics and Communication Engineering   2022–2026
St. Joseph's Institute of Technology, Chennai   CGPA: 8.53 (upto 5th sem)

EXPERIENCE

-
   Airports Authority of India (AAI) - ATC - CNS Department   (2023, 15 days)
   - Gained hands-on exposure to airport communication systems, radar technology, and air traffic management.
   - Observed maintenance procedures for navigation and surveillance equipment.
   - Familiarized with operational protocols of air traffic control systems.
   - Analyzed data from radar systems to understand real-time aircraft tracking and management.

   Ramphal Technologies Pvt. Ltd. (In collaboration with AAI)   (2025, 2 Months)

   - Developed a real-time radar data processing pipeline using Java (PCAP) for UDP packet capture and Python (Asterix4py) for ASTERIX CAT 48 decoding.
   - Integrated WebSockets for seamless data communication and real-time streaming.
   - Designed an interactive radar display using React Leaflet.js for real-time tracking.
   - Gained hands-on experience in radar surveillance, Java, PCAP, WireShark, and modern software practices.

PROJECTS

* **Fire Alert in E-Vehicle using IoT and Cloud** Developed an IoT-based fire alert system for electric vehicles, utilizing real-time monitoring and cloud computing for instant notifications and data analysis. Technologies used: IoT, Cloud Computing, AWS, Arduino, Sensors, Real-time Data.
* **Smart Irrigation System** Designed an IoT-powered smart irrigation system, using sensors to automate watering based on soil moisture levels and weather forecasts, integrated with cloud data analytics. Technologies used: IoT, Raspberry Pi, Sensors, Python, Cloud Computing, Agriculture, Automation.

SKILLS

* **Programming Languages:** Java, SQL, Python.
* **Tools & Technologies:** Power BI, Arduino, IoT, Cloud Computing
* **Other Skills:** Problem Solving, Communication, Teamwork, Time Management.

CERTIFICATIONS and ACHIEVEMENTS

* **Introduction to Industry 4.0 and Industrial Internet of Things (ELITE)** - IIT Kharagpur - NPTEL
* **Cloud Computing**-IIT Kharagpur - NPTEL
* **C , JAVA , HTML** - Spoken Tutorial.
* **HACKATHON -Sustainable Agriculture-** Third Place
* **EDC Club** - Plan for demand - Cash reward
* **Journal** - Evolutionary change of human DNA in space - applied (JCBECA).
* **Journal** – IRS for 6G networks - applied (JCBECA).