SAI NAGA KEERTHANA KANDULA

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Education

Kalasalingam Academy Of Research And Education **2022 - 2026**
Bachelor of Technology in Computer Science and Engineering(CGPA - 9.1) *TamilNadu, India*

Narayana Junior College, Vijayawada **2022**
SSC | Class XII | CGPA- 91.4 *AndhraPradesh, India*

Sri Chaitanya School, Vijayawada **2020**
SSC | Class X | CGPA- 99.5 *AndhraPradesh, India*

Technical Skills

Data Structure and Algorithms, Problem Solving Skills, App Development
Languages: Core Java, Python,C,XML
Database: SQL, MongoDB
Frameworks: Git, Android Studio, Nodejs, Bootstrap
Core Subjects: DBMS, Operating System, OOPS

Projects

Quick Ryder | *Flutter, Firebase, Cloud Storage, Realtime Database*

- Ride sharing app for students to find or offer rides.
- Used Flutter (frontend) and Firebase (backend, database).
- Stored license and ID documents using Firebase Cloud Storage.
- Implemented real-time updates using Firebase Realtime Database.
- **Innovation:** Added sleep detection feature for safety using motion analysis.

Smart Hospital Management System | *PHP, MySQL, HTML/CSS, JavaScript, ID3 Algorithm*

- Built a web-based hospital management system to digitize patient registration, appointments, and record sharing.
- Implemented ID3 decision tree algorithm to automate doctor assignment based on patient input data.
- Developed secure login portals and dashboards for patients, doctors, and administrators.
- Enabled online access to prescriptions, reports, medical history, and doctor availability.
- Reduced paper dependency and improved hospital workflow efficiency with smart interfaces.

IoT-Based Warehouse Security System | *NodeMCU, IR Sensors, GSM, Buzzer, Arduino IDE*

- Designed an intrusion detection system for warehouses using motion and infrared sensors.
- Used NodeMCU to send alerts via GSM when unauthorized access is detected.
- Activated buzzer and SMS notifications in real time for enhanced security.

Remote Health Monitoring System for Elderly Care Using IOT | *ESP8266, MongoDB Atlas,DS18B20, Website Dashboard*

- Developed a low-cost wearable system for real-time monitoring of heart rate and temperature using ESP8266 microcontroller and IoT sensors.
- Used MAX30100 and DS18B20 sensors to measure SpO and temperature, transmitting data securely to MongoDB Atlas cloud storage.
- Enabled remote data access and analytics for early health anomaly detection in elderly patients.
- Presented at the **International Conference on Nursing and Healthcare (ICNH-25)**, Coimbatore, April 2025.
- Conference Link: ICNH-25, NIER

Achievements

- EUPHORIA – Tech Forge Certificate Of Appreciation – Secured 2nd place
- Vasista Samsista IITDM Hackathon Certificate Of Appreciation
- KPR Institute of Engineering and Technology SDGTHON 25 – Finalist

Profile Links

- Hackerrank
- GitHub
- Leetcode