Sirisha Bhumala

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SUMMARY

B.Tech graduate (2025) and Python developer who builds IoT-based Key Management and Access Control Systems. Integrates hardware devices with backend REST APIs, MQTT and PostgreSQL, and tests and debugs systems end to end for reliable, secure operation.

EDUCATION

Vasireddy Venkatadri Institute of Technology (JNTUK) 2021 - 2025
B.Tech 70%

Sri Chaitanya (State Board) 2019 - 2020
Intermediate 712 marks

PROJECTS

Access Control System (ACS) | *Python, MQTT, REST APIs, RFID, Face Recognition, IoT* Oct 2026 - Present

- Developed and maintained IoT-based Access Control Systems in Python, integrating HID access controllers, RFID readers, QR code and face recognition for secure entry.
- Implemented MQTT communication, REST APIs, access validation and Anti-Passback (APB) with real-time event synchronization.
- Performed hardware and software integration, system testing and debugging to keep access control operations reliable and secure.

Key Management System (KMS) | *Python, REST APIs, PostgreSQL, IoT* Apr 2026 - Sep 2026

- Built Python application logic and hardware communication for electronic key cabinets, covering secure key storage, tracking and access management.
- Integrated device communication with backend APIs and database synchronization to keep key records consistent and secure.
- Conducted system integration, functional testing, debugging and troubleshooting to improve system reliability and security.

TECHNICAL SKILLS

Languages and databases: Python, PostgreSQL, SQL
IoT and integration: MQTT, REST APIs, RFID, Face Recognition, Hardware integration
Engineering: System Design basics, Testing and debugging, Problem Solving