

# Rafi Rasheed T C

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*Self taught software developer who has 2+ Years of experience in building hardware and software solutions to make life simpler*

## PROFESSIONAL EXPERIENCE

### Neewee Analytics

SDE - 1

Bangalore, IN

June 2022–Present

- Developed firmware for IoT devices supporting various protocols (RS232, Modbus, HID and Ethernet).
- Designed and Developed algorithm which reduced 30-50% of maintenance downtime of equipment in Manufacturing.
- Architecture designed and developed Production scheduling algorithm to improve planning and productivity of manufacturing industries
- Engineered monitoring service aggregating logs from diverse sources, showcased via user-friendly UI with Server-Sent Events (SSE) in FastAPI. Greatly enhancing debug capabilities.
- Designed, and developed multiple Linux services and automation scripts for seamless file and data transfer across diverse protocols. Enhanced scalability while minimising database load.
- Designed and developed methodology and tools to slash hardware testing cycle time by 50%, streamlining the testing process significantly.
- Developed USB data aggregation device using ESP32-S3 and ESP- IDF, leveraging HID protocol for efficient data collection. Achieved 70% cost reduction, ensured user-friendly operation and collaborated cross-functionally.

## SKILLS

- **Languages** C++, Python, Node Js, Bash, Go
- **Tools** Git, DBeaver, Docker, Swarm Cluster, Linux, VS code, PyCharm, Vi
- **DB** PostgreSQL, SQLite
- **Library** Free RTOS, Pandas, SQLAlchemy, Express JS
- **Hardware** ESP32, Raspberry Pi, Arduino,
- **Protocol** MQTT, TCP/IP, UART, SPI, HID
- **Cloud** AWS

## PROJECTS

- Developed algorithms to plan production and maintenance scheduling in an optimised way. Helped manufacturers to reduce downtime, proper utilisation of manpower and improve efficiency.
- Helped manufacturing industries to enable digital traceability of complex processes of production.

## EDUCATION

### Cochin University of Science and Technology

Bachelor of Technology in Electronics and Communication

Kerala, IN

Aug 2018–May 2022

- Built a peer learning ecosystem in college to learn technology