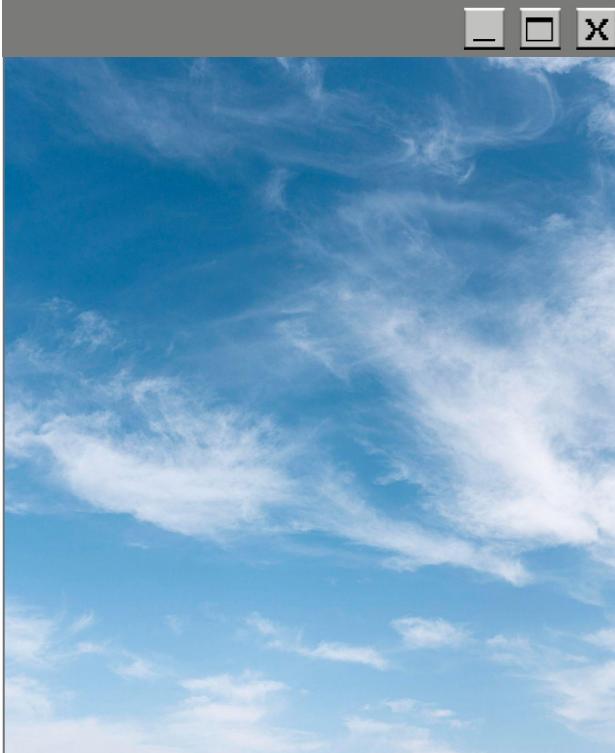


IoT in Action: From Sensors to Scope





Rishi Krishna S

Maker//Hardware Engineer

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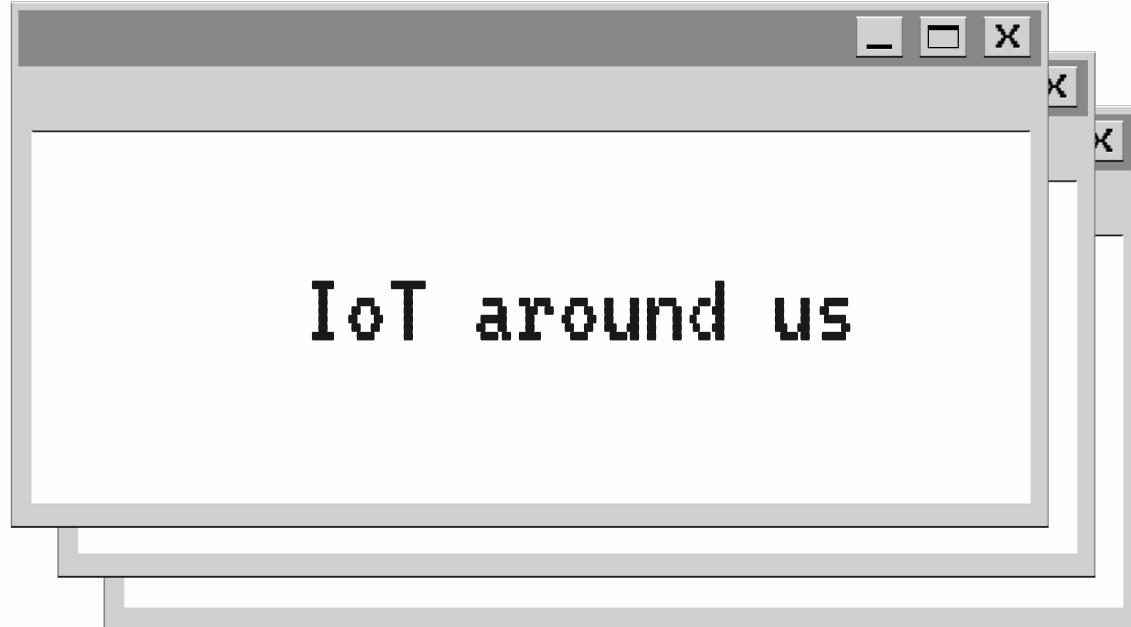
Mail: rishikrishna.sr@gmail.com

Github: github.com/Rishi-k-s

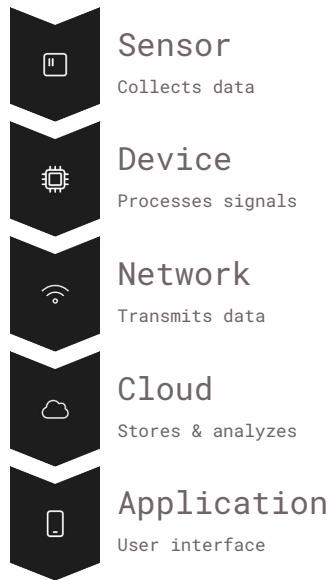




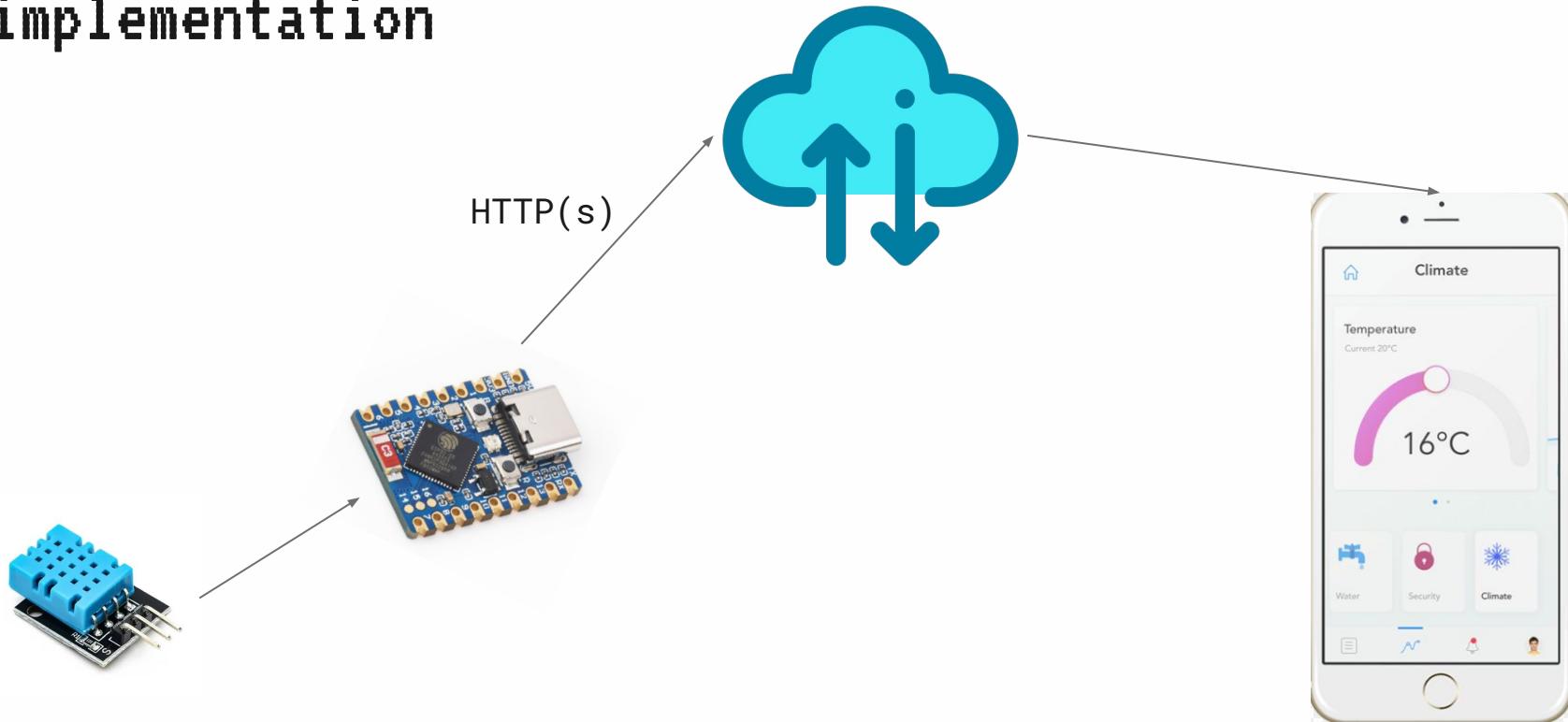
Home automation, Engotta, Server Management,
Raspberry pi's etc..



UPI, Smartwatch, smart-anything, Industry 4.0
...



implementation



building Engotta





IoT isn't just smart
homes. It's about saving
lives, preventing
disasters, and making
society resilient



You getting started with Practical IoT

Esp 32 Boards, Raspberry Pi etc...

Spinning up an IoT system

Thingspeak + wokwi

Cloud-Hosted IoT

- Services like Adafruit IO, AWS IoT
- Easy setup but limited customization
- Monthly fees and data restrictions
- Dependent on internet connectivity

Self-Hosted IoT

- Node-RED, ThingsBoard, Mosquitto MQTT
- Complete control and customization
- One-time setup costs only
- Works offline on local networks

Why Self-Host Your IoT Infrastructure?

Privacy & Control

Your data stays within your network. No third-party access, complete ownership of sensitive information.

Lower Costs

Eliminate recurring subscription fees. One Raspberry Pi can handle hundreds of IoT devices efficiently.

Customization

Build exactly what you need. Custom dashboards, unique automations, specialized data processing.

Offline Ready

Works without internet. Perfect for remote locations, factories, and critical applications requiring reliability.

Real-world relevance: Factories, hospitals, and farms often self-host for security and reliability. Running Mosquitto MQTT + Node-RED on a Raspberry Pi = your own private IoT cloud!



IoT jobsssss//doubts



Thankyou