

# Muhammad Rishal P

Kannur, Kerala

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## PROFESSIONAL SUMMARY

Computer Science and Engineering undergraduate with hands-on experience in **backend development, systems programming, IoT, and government IT operations**. Currently pursuing a virtual internship with **Infosys**, with prior industry experience at **KELTRON** and **SFO Technologies**. Backed by a diploma in **Electronics and Communication Engineering**, offering strong foundations in electronics, networking, embedded systems, and low-level software.

## EDUCATION

- Government Engineering College, Kannur** 2024 – Present
  - B.Tech – Computer Science and Engineering*
  - Relevant coursework: Data Structures, OOP, DBMS, Operating Systems
- E.K. Nayanar Memorial Model Polytechnic College** 2020 – 2023
  - Diploma – Electronics and Communication Engineering (CGPA: 8.77)*
  - Strong foundation in electronics, networking, and low-level programming

## EXPERIENCE

- Infosys Springboard (Virtual Internship)** Remote 2025 – Present
  - Software Development Intern (Ongoing)*
  - Developing a Resume Analysis and Job Recommendation system using Python and Streamlit.
  - Implementing authentication with bcrypt, SQLite3, and LangChain-based resume parsing.
- KELTRON (Kerala State Electronics Development Corporation)** Kannur, Kerala 2023
  - Network Supervisor & Digital Signature Project Coordinator*
  - Managed IT and network operations at the Department of Treasuries, Government of Kerala.
  - Coordinated DSC implementation for secure authentication and document workflows.
  - Provided system configuration and troubleshooting in a production environment.
- SFO Technologies** Kakkanad, Kochi (CSEZ) 2023
  - Production Technician – Wire Harnessing*
  - Worked on wire harness assembly and inspection for electronic systems.
  - Followed industrial manufacturing standards and quality control processes.

## TECHNICAL SKILLS

- Languages:** Python, C, Java, SQL, JavaScript, NASM Assembly
- Backend & Systems:** Node.js, TypeScript, Express.js, Spring Boot, REST APIs
- Frontend:** Flutter, React, Streamlit, HTML, CSS
- Databases:** SQLite, MySQL, PostgreSQL, MongoDB
- DevOps & OS:** Docker, Git, GitHub, Linux CLI, Neovim
- Networking, IoT & Security:** IoT systems, network supervision, sandboxed execution

## PROJECTS

- Smart Home Automation – Habitat (ESP32, Tasmota, Flutter)**  
Built an IoT-based home automation system using ESP32 and Tasmota. Developed a Flutter app (Habitat) for local IP-based device control with remote access via Alexa and Google Assistant.  
[github.com/rishalsha/Habitat](https://github.com/rishalsha/Habitat)
- Rumbly (Run Assembly) – NASM Code Execution Platform**  
Contributed to a platform for executing NASM assembly code, working on backend execution logic using Node.js and TypeScript with controlled sandboxed execution.  
[github.com/IamShaDoW666/rumbly](https://github.com/IamShaDoW666/rumbly)
- RFID Based Attendance System**  
Designed and implemented an RFID-based attendance management system to automatically record user entry, validate identities, and store attendance data digitally, reducing manual effort and improving accuracy.
- Smart Car Parking System**  
Developed an automated parking management system to monitor parking slot availability and optimize space utilization using sensor-based detection and control logic.