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
  Software Development Intern (Ongoing) — 2025 – Present
- 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
  Network Supervisor & Digital Signature Project Coordinator — 2023
- 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)
  Production Technician – Wire Harnessing — 2023
- 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

- **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

- **RFID Based Attendance System**
  Developed an RFID-based system to record and manage attendance digitally.

- **Smart Car Parking System**
  Designed an automated parking management solution to optimize space utilization.