

Rishi Krishna S

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github.com/Rishi-k-s

Education

Cochin University Of Science And Technology, July 2023 – July 2027
BTech. in Computer Science and Engineering

- **Coursework:** C, C++, Python, OOPs, DSA, Cyber-Physical Systems, Digital Electronics, System Architecture

Dayapuram Residential School, May 2022 – May 2023
Senior Secondary

Skills

Languages: C++, C, Python, Java, CUDA, SQL, Dart, Flutter, JavaScript, Google App Script, Git

Software: VS Code, Linux, Nano, Firebase, Linux, MYSQL Server, Figma, Photoshop, Premiere Pro, Notion, GitHub

Other: Homelabbing, Self-Hosting, Embedded Systems, IoT, Messing with linux

Experience

Open Source Hardware Intern, FOSSEE (IIT Bombay) – Mumbai, India Dec 2025 – Jan 2026

- Worked on simulating the ESP32 microcontroller in QEMU for the Yaksh platform, enabling improved hardware emulation and testing workflows.
- Optimized simulation and execution algorithms to improve runtime performance and make emulation faster and more efficient.

Developer Intern, Lascade – Kochi, Kerala Jan 2025 – Mar 2025

- Developed a Telegram bot and Chrome extension leveraging REST APIs to automate and streamline tasks, enhancing user interaction and functionality.
- Engineered a flight booking system while working at Lascade, implementing RESTful services to handle catering logistics and booking workflows efficiently.

Winter Intern, Techcora – Chennai, Tamil Nadu Nov 2024 – Jan 2025

- developing of an AI camera system prototype capable of object detection using trained AI/ML models.
- Implement a mechanism to notify users via SMS or call when an object of interest is detected.
- Utilized Raspberry Pi for prototyping, ensuring efficient system performance and compatibility. with Hailo 8.L AI Acceleration module

Media Lead Tinkerspace, Tinkerhub Foundation– Ernakulam, Kerala Apr 2024 – Oct 2024

- Led a team of 5 media interns, overseeing tasks related to poster design, standees, and other media projects.
- Built a media directory in Figma and a Notion page to streamline team collaboration and workflow management.
- Spearheaded the theme development for the QBronze event by QIndia and Designed and executed the stall and theme for FOSS India as part of Tinkerspace's involvement

Flutter Developer Intern, National Health Mission – Kozhikode, Kerala May 2024 – June 2024

- Developed an app using Flutter to gather and manage data from major hospitals and Local Self-Government Departments (LSGD), with data stored in Firebase and automatically updated in Google Sheets via App Scripts for easier management by the National Health Mission (NHM).
- Designed the app's UI/UX in Figma, Improved data accessibility for NHM officials, reducing manual updates by 40

Media Intern, Tinkerhub Foundation – Ernakulam, Kerala Jun 2022 – Dec 2022

- Created videos for Tinkerhub's YouTube and Instagram, helping increase outreach and engagement.
- Assisted the media lead with design decisions and content strategies to enhance Tinkerhub's digital presence.

Freelance Developer – Kozhikode, Kerala Apr 2020 – May 2022

- Collaborated with various organizations to set up websites and provide technical assistance in web development and Google Workspace.
- Delivered remote technical support during the COVID-19 pandemic, ensuring smooth digital operations for clients.

Projects

Self-Hosted Personal Cloud Server

- Built and managed a Debian-based homelab server hosting Ente, Immich, Samba, and Jellyfin services using Docker for containerized deployment
- Configured a Cloudflare Tunnel for secure, public-IP-free remote access. Developed a custom API to automate content retrieval via torrenting, enabling seamless media ingestion and on-demand streaming. Optimized for reliability, performance, and data privacy.

STEP - Student Teacher E-Learning Platform

github.com/Rishi-k-s/step

- Designed and developed a Learning Management System (LMS) to facilitate live classes, manage homework submissions, and administer quizzes
- Tools Used: Figma, Flutter(Dart), Firebase

Project Residue

github.com/Rishi-k-s/residue

- Developed a smart bottle collection system that rewards users for recycling bottles.
- Tools Used: ESP8266, Flutter, Firebase

Dial Deck

[github.com/DialDeck](https://github.com/Rishi-k-s/DialDeck)

- Dial Deck is a customizable macro keypad repurposing an old BSNL landline for enhanced productivity and control.

The Real Halftone Cam

github.com/Rishi-k-s/the-real-halftone-cam

- Built a Raspberry Pi-based camera that applies real-time halftone effects directly to captured images.
- Tools Used: Raspberry Pi, Python, OpenCV

Scooter HUD

github.com/Rishi-k-s/scooter-hud

- Developed a customizable scooter-mounted heads-up display for real-time speed, navigation, and sensor data.
- Tools Used: ESP32 S3, OLED Display, GPS Module