

# Rishi Krishna S

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github.com/Rishi-k-s

## Education

<b>Cochin University Of Science And Technology,</b> BTech. in Computer Science and Engineering	July 2023 – July 2027
• <b>Coursework:</b> C, C++, Python, OOPs, DSA, Cyber-Physical Systems, Digital Electronics, System Architecture	

<b>Dayapuram Residential School,</b> Senior Secondary	May 2022 – May 2023
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## Skills

<b>Languages:</b> C++, C, Python, Java, CUDA, SQL, Dart, Flutter, JavaScript, Google App Script, Git
<b>Software:</b> VS Code, Linux, Nano, Firebase, Linux, MYSQL Server, Figma, Photoshop, Premiere Pro, Notion, GitHub
<b>Other:</b> Homelabbing, Self-Hosting, Embedded Systems, IoT, Messing with linux

## Experience

<b>Open Source Hardware Intern</b> , 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.	
<b>Developer Intern</b> , 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.	
<b>Winter Intern</b> , 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	
<b>Media Lead Tinkerspace</b> , 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	
<b>Flutter Developer Intern</b> , 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	
<b>Media Intern</b> , 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.	
<b>Freelance Developer</b> – 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

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## 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](https://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](https://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/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](https://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](https://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