RICKY KASHYAP

DevOps Engineer · Embedded Systems & IoT

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Computer Science undergraduate (B.Tech, Gauhati University, 2023–2027) specializing in embedded systems and DevOps engineering. Experienced in developing firmware for ESP32 and RP2040 platforms and in deploying and maintaining production web applications, including an internal platform for a government department and a live e-commerce storefront. Maintains self-hosted infrastructure built on Proxmox, pfSense, Docker, and Grafana, with fully automated CI/CD deployment pipelines.

EXPERIENCE

DevOps Engineer (Intern) — VrixaaLabs Pvt Ltd, Remote Jun 2026 – Present
Infrastructure, containerized deployments, and CI/CD pipelines — Docker, GitHub Actions, and Linux in production.

Hackathon Lead — CYPHER Hackdays, Guwahati Mar 2026
Led the CYPHER hackathon: event organization, problem statements, and coordinating teams.

Project Intern — Innect Technologies Pvt. Ltd., Assam (Hybrid) Jan – Feb 2026

Intern — Airports Authority of India, Guwahati (On-site) Jun 2025

PROJECTS

Guwahati Water Department — Internal Platform Deployment (live, private)
Deployed a private internal website for the Guwahati water department, used by the team as a pin board and internal messaging tool; handled deployment, hosting, and access setup.

Creativlok — E-commerce Deployment (live)
Took an e-commerce storefront to production end to end: hosting provisioning, domain and DNS configuration, SSL certificates, production build and go-live, plus post-launch updates.

RoadSense — Road-Hazard Intelligence Platform
Crowd-sourced hazard mapping for Indian cities: ESP32 vehicle nodes and a Kotlin Android app report potholes and speed breakers to a live Mapbox heatmap on Cloudflare Pages/Functions/D1.

Corne BLE Keyboard — Wireless Split Mechanical Keyboard
Handwired keyboard built from scratch: ESP32 BLE HID firmware in C++, deep-sleep power management, 18650 battery charging, 3D-printed case.

Pico Web HID Controller
Raspberry Pi Pico as a browser-controlled keyboard/mouse/macro device over local Wi-Fi (CircuitPython).

Low-Cost Agri IoT Sensors
Environmental and soil sensor node under Rs. 2,000 (C++/ESP32) for accessible precision farming.

SKILLS

Firmware / Hardware: C, C++, ESP32, Raspberry Pi Pico (RP2040), Arduino, PlatformIO, BLE, USB HID

Languages: Python, TypeScript, JavaScript, Bash, HTML5, Node.js

DevOps / Infrastructure: Docker, Proxmox, GitHub Actions, Portainer, Grafana, Linux, NGINX, Git

Networking: Cloudflare, WireGuard, Tailscale, pfSense, Pi-hole

EDUCATION

B.Tech, Computer Science — Gauhati University 2023 – 2027