

Radhey Kalra

Full-stack developer and open source contributor focused on Linux systems programming, self-hosted infrastructure, and Audio/ML pipelines.

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Education

Model Institute of Engineering and Technology

Jammu and Kashmir, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Aug 2023 — May 2027

Open Source Experience

Linux Kernel (hp-wmi) · Platform-driver-x86 subsystem

[385bf4f](#) · [9ed0f25](#) · [5417f92](#) · [b461a88](#)

- Added HP Victus 15-fb0xxx (board 8A3D) fan-control support to the upstream Linux hp-wmi driver by reusing its existing Victus WMI control path.
- Refactored hp-wmi to select thermal-profile and fan-control features from board-specific data instead of hardcoded model checks.
- Tested dual-channel PWM fan control on an HP Victus 16-s0xxx and provided the Tested-by sign-off for the upstream commit.

Tokscale · AI coding token analytics

[bcd4c22](#) (PR #998) · [ab9f226](#) (PR #1000)

- Added first-class standalone Cline CLI and Kimchi Coding session ingestion across parsing, scanning, CLI/TUI filters, frontend metadata, and documentation, preserving token, cost, model, workspace, and cache data.
- Corrected Grok usage accounting and model attribution across parent/child agent sessions with process-generation scoping, deduplication, cache-safe behavior, and dual-source discovery; merged after passing 1,300+ core tests.
- Contributed to a developer analytics project with 4.8K+ GitHub stars and 390+ forks.

ly · Lightweight Linux/BSD display manager

[GitHub commit](#) · [Codeberg commit](#)

- Proposed and implemented an optional big-clock digit outline for ly, improving readability over animated backgrounds while preserving the default appearance; tested with a ReleaseSafe Zig build and a live greeter configuration.
- Contributed to a project with 7.4K+ GitHub stars and 350 forks on its GitHub mirror.

Projects

BoxBox | Go, TS, SvelteKit, Docker

[Website](#) · [GitHub](#) · [Docker](#)

SELF-HOSTED FILE MANAGEMENT

Nov 2025 — Present

- Made self-hosted file management practical on lightweight hardware with multi-mount browsing, chunked/resumable uploads, live job progress, media preview/streaming, and in-browser code editing, all in a 31MB single binary.
- Eliminated deployment friction with an embedded UI and a one-command container image for homelab and NAS setups.
- Reached 300+ GitHub stars and 9K+ downloads, confirming demand for a lighter alternative.

Fast Blob Storage (FBS) | Go, S3, Docker, SQLite

[Website](#) · [GitHub](#) · [Docker](#)

S3-COMPATIBLE OBJECT STORAGE

Apr 2026 — Present

- Led a team of 5 contributors to design and build a single-node object store, coordinating API, storage, dashboard, and deployment work across a single-binary and containerized release.
- Matched MinIO's core API (SigV4 + bearer auth, multipart uploads, management API) at 12–14× less memory using zero-copy sendfile() egress instead of distributed-cluster overhead.
- Grew to 50+ GitHub stars, proving lightweight object storage can compete without sacrificing performance or compatibility.

U-Net Audio Filter | Python, PyTorch, CUDA

[GitHub \(private\)](#)

AUDIO ENHANCEMENT / BACKGROUND NOISE REMOVAL

Jul 2025 — Present

- Improving audio denoising quality beyond existing open-source baselines with a custom U-Net architecture and an audio preprocessing pipeline.

QckPages | SvelteKit, Convex, Razorpay, FBS

[Live](#) · [GitHub](#)

END-TO-END HTML PAGE PUBLISHING PLATFORM

May 2026

- Removed the infrastructure burden from publishing HTML pages with authentication, billing, and object storage so anyone can upload and get a live URL with no server management.
- Full self-serve product flow from signup and plan checkout to one-click publish and hosted page delivery.

Additional Projects

- Victus Control — Vala/GTK4 app to monitor, control fan speed, and power profiles for HP laptops

[AUR](#) · [GitHub](#)

- [rsclip](#) — Rust/Wayland clipboard manager with OCR and secrets management [AUR](#) · [GitHub](#)
- [Dots-Niri](#) — one-command NiriWM rice for Arch-based installs [Website](#) · [GitHub](#)
- [HowTo](#) — tutorials for practical hardware/software walkthroughs built with Astro [Live](#) · [GitHub](#)
- [Pico32](#) — C++/PlatformIO serial TUI for ESP32 Wi-Fi/BT pentesting [Website](#) · [GitHub](#)
- [TL;DR](#) — Electron app summarizing WhatsApp Group chats via OpenRouter models [GitHub](#)
- [Hotel Booking](#) — Svelte/Express/MySQL hotel booking platform with auth and admin flow [GitHub](#)
- [Tenant Manager](#) — React Native app for tenant management and electricity tracking [GitHub](#)

Skills

Languages	Python, JavaScript/TypeScript, Go, C/C++, Rust, SQL, Bash, PowerShell, Vala
Frameworks	SvelteKit, React, Astro, Tailwind CSS, React Native, Bun
Tools	Git, Docker, CI/CD, Cloudflare, Vercel, Kubernetes, Terraform
Data & Cloud	Convex, PostgreSQL, MySQL, AWS, GCP
Domains	Full-Stack Development, Linux Servers, Self-Hosting, Networking, Audio Processing

Positions of Responsibility

Cloud & DevOps Lead	MIET, Jammu
GOOGLE DEVELOPER GROUPS ON CAMPUS · AWS CLOUD CLUB	Aug 2025 — Present
• Lead cloud and DevOps initiatives across Google Developer Groups on Campus and AWS Cloud Club through workshops, technical sessions, and collaborative projects on GCP, AWS, containerization, and infrastructure automation. • Ran Google Cloud sessions for 100+ students and built a tutorial platform with 20+ lab walkthroughs, notes, and videos for Google Cloud Study Jam · Live · GitHub	

Achievements

IDE Bootcamp Edition 3 — Team Leader, 2nd Place	GNDEC, Ludhiana
AICTE / MoE INNOVATION CELL · WADHWANI FOUNDATION	Apr 2026
• Led a team to 2nd Place building an AI-powered SaaS product for automated presentation generation from user-uploaded templates and documents with lower cost and no hallucinations.	
IDE Bootcamp Edition 2 — Team Leader	IIT Jammu
AICTE / MoE INNOVATION CELL · WADHWANI FOUNDATION	Feb 2025
• Led a team in using design thinking and Lean Canvas to develop a sports matchmaking and social networking app.	
Hackathon Team Leader	MIET, Jammu
INTERNAL HACKATHONS & SMART INDIA HACKATHON	2024 & 2025
• Led multidisciplinary teams to the top 9 in college both years through collaborative problem-solving and rapid prototyping.	

Certifications & Programs

Google Cybersecurity — Coursera	Certificate
Cisco Cybersecurity Operations Fundamentals — Coursera	Certificate
Palo Alto Networks Cybersecurity — Coursera	Certificate
EC-Council Cybersecurity Attack and Defense Fundamentals — Coursera	Certificate
NPTEL Ethical Hacking — IIT Kharagpur	Certificate
NPTEL Deep Learning — IIT Ropar	Certificate
IBM SkillsBuild: AI Agent Architect	Certificate
IDE Bootcamp (AICTE / MoE)	Certificate