Shaswat Raj

DevOps / Platform Engineer · Go, Linux, Docker, CI/CD · Fixes in Kmesh (service mesh) and Jaeger (tracing)

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EDUCATION

Birla Institute of Technology, Mesra— B.Tech, Computer Science & Engineering — Expected May 2028

Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Software Engineering.

SKILLS

Infrastructure: Linux, Docker, CI/CD (GitHub Actions, GitLab CI), Cloudflare Workers, GitHub Pages
Languages: Go, Bash, TypeScript, Python, Rust, SQL
Data & runtime: PostgreSQL, Redis, Node.js, Hono
Observability & mesh: Jaeger (tracing, sampling, SPM), Kmesh / Istio ambient (contributions)

EXPERIENCE

Bitotsav — BIT Mesra annual festival— Tech Lead '26 · Web team '25 — 2025 – 2026

- Ran live operations through the festival: on call for organisers and gate volunteers, fixing data and flow problems as they came up.
- Built signed-QR entry verification with a scanner that keeps working in no-network zones; Redis in front of PostgreSQL for hot paths.
- Led and built the tech platform for ~5,000 participants: website, registration, team workflows, points system, admin panel and internal tools.
- 2025 (web team): built the festival site's frontend, improved its SEO, and created the first QR-based entry system used at the gates.

ACM BIT Mesra (student chapter) — Joint Secretary — 2026 – 2027

- Built the chapter's student developer platform with verified identities and rankings (acm-bitmesra.github.io #3, merged).

Open source — Contributor — 2022 – Present

- In review: four Go fixes in the kmesh-net/kmesh service-mesh dataplane: a nil-pointer panic in the CNI plugin, DNS refresh loops duplicated per xDS update, success judged by stderr instead of exit status, and a label check that disagreed with the daemon.
- In review: jaegertracing/jaeger #10024 rejects out-of-range sampling parameters at startup and on hot reload instead of serving them to SDKs; filed three more Jaeger SPM metrics bugs.
- Merged: google-gemini/gemini-cli #20778 (TypeScript), mofa-org/mofa #1577, #1587, #1594 (Rust), preactjs/preact #5331, codex-team/editor.js #3040.

PROJECTS

playlikeboy.github.io — *GitHub Actions, GitHub Pages, GitLab CI* — playlikeboy.github.io/status

- CI/CD that builds and deploys on push with scoped permissions, mirrors to GitLab, and runs hourly uptime checks on my products with 30 days of history.

IndexFast, MCP Pure, Solus — *Cloudflare Workers, Hono, Neon Postgres, Drizzle, R2* — indexfast.co

- Services I deploy and operate on Cloudflare Workers; IndexFast submits URLs to Google, Bing and IndexNow from an IDE over MCP.

SopKit — *Static export, GitHub Pages, WebAssembly* — sopkit.github.io

- 605+ tools served as static files with zero server compute; 4.3M+ requests and 213K+ visits in 30 days, operated solo.

CampusLoop — *Next.js, PostgreSQL, Cloudflare Workers, WebSockets* — campusloop.space

- Student network gated by college email; sign-up accepts the domains of 1,350+ Indian colleges. Feeds, marketplace, polls and time capsules.

HONORS

- AICTE Productization Fellowship 2025 — shortlisted in the national Top 500 (Kishan AI).
- Adobe University Hackathon 2026 — reached Round 3 with OmniAudit-GEO, an AI-search visibility auditor (team of two; live demo).
- Apify hackathon — prize ($100) for a production web-scraping actor.
- Technical writing on Dev.to, 45K+ followers.