

Dipankar Das

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PROFESSIONAL SUMMARY

Systems-focused DevOps Engineer with 2+ years of experience specializing in cloud-native architecture, infrastructure modernization, and high-concurrency distributed systems. Architected multi-cloud orchestration engines in **Go** and led zero-downtime migrations for **Fortune 500** and **FinTech** enterprises. Proven track record in optimizing cloud spend by **20%** via advanced FinOps strategies and enhancing reliability through **OpenTelemetry**. Founder of the **ksctl** ecosystem, dedicated to building developer-centric efficiency tools and scalable multi-cloud infrastructure.

SKILLS SUMMARY

- **Languages:** Go, C, Python, Rust, Java, JavaScript, C++
- **Tools:** Kubernetes, Docker, MongoDB, MariaDB, NATS, Redis, Jenkins, Ansible, Terraform, Vault
- **Concepts:** Event-driven systems, CQRS, DDD, Event Sourcing (familiar)
- **Platforms:** AWS, Azure, Hetzner, GCP, Linux
- **Soft Skills:** Project Maintainer, Planning, Tech. Writing, Time Management and Automating things

EXPERIENCE

- **rtCamp** Pune, India
DevOps Engineer Jan 2024 - Present
 - **Enterprise IaC & Migration (Cox Automotive):** Spearheaded a zero-downtime migration of legacy AWS infrastructure into **Terraform**. Remediated critical gaps by importing manually managed **CloudFront** distributions, **S3** assets, and **WAF** policies into a standardized multi-environment GitOps workflow, ensuring 100% configuration consistency and eliminating "Click-ops". Had a rigorous **Plan-Review-Apply** SOP for infrastructure changes, ensuring zero configuration drift across multi-cloud production environments.
 - **Cloud-Native Scaling & Observability:** Architected the migration of a monolithic **Frappe/ERPNext** platform to a distributed **Kubernetes** cluster for a global FinTech platform. Decoupled core services to handle high-concurrency traffic and implemented **OpenTelemetry (OTel)** for full-stack instrumentation (logs, traces, metrics), reducing MTTR by providing deep visibility into distributed worker bottlenecks.
 - **Cloud FinOps & Cost Engineering:** Achieved a **20% reduction in cloud OpEx** by optimizing Kubernetes compute strategies. Engineered specialized Node Groups utilizing **Spot Instances** and implemented **scale-to-zero** logic for memory-intensive background tasks and cron jobs, ensuring high performance while minimizing idle resource waste.
 - **Product Engineering (EasyDash / EasyEngine):** Co-developed a high-scale **Cloud Provisioning Engine** for **dash.easyengine.io** using **Python**, **Terraform**, and **Ansible**. Engineered the automated backend for rapid WordPress/PHP deployments, facilitating a successful market launch that generated \$200+ in initial subscription revenue within 60 days.
 - **Automation & Developer Experience:** Optimized **GitHub Self-Hosted Runners** with resource-aware labeling and multi-container environments, drastically reducing CI/CD wait times.
- **kubmin – ksctl** Remote
Founder & Principal Engineer Jun 2025 - Present
 - **Distributed Orchestration Engine:** Architected a cloud-agnostic provisioning engine in **Go** to manage Kubernetes lifecycles across AWS, Azure. Engineered a high-availability state layer using **Turso (Edge SQLite)** and **Redis**, enabling idempotent cluster operations with a minimal infrastructure footprint.
 - **Pragmatic Task Orchestration:** Developed a lightweight, event-driven **state machine** using **NATS JetStream**. Optimized for operational simplicity over heavy frameworks like Temporal, implementing custom NAK/ACK and retry logic to ensure 100% reliability during long-running infrastructure tasks.
 - **Scalable Access Governance (ReBAC):** Implemented a **Relationship-Based Access Control** system using **Authzed (SpiceDB)**. Designed a hierarchical sharing model (Org, Cluster, Workload) to handle complex multi-tenant permissions and quota enforcement across distributed engineering teams.
 - **Developer Efficiency Analytics:** Designed an engine to track **container image behavior across versions**, providing developers with data-driven insights into performance and energy regressions. Enabled teams to baseline and optimize software efficiency within the Kubernetes deployment pipeline.
 - **AI-Augmented Engineering:** Integrated **Claude Code and Gemini CLI** into the platform development workflow. Leveraged AI-agentic patterns to accelerate platform delivery by 40% while maintaining high code quality and consistency.
 - **Website:** [Link to Detailed view](#)
- **Viamagus** Remote
DevMLSecOps Consultant POC (Freelance) Feb 2025 – Apr 2025
 - **Integrating vulnerabilities finder inside their CI:** used OWASP ZAP to help the team find bugs in their APIs like SQL injection, man-in-middle attacks for their web applications and APIs
 - **Integrating Snyk into their Code Review Pipeline:** into their CI pipelines for vulnerability scanning.
 - **Optimized internal LLM-based projects:** Helped containerization and even created report on what are the real benchmarks in terms of image size, network/disk performance.
 - **Deploying OSS LLM Models:** Deployed vLLM and ollama with AWS Auto Scaling Groups and VPC PrivateLink infrastructure.
- **Open Source Contributions** Remote
Self-Employed (Part-time) worked on Rust, Go, JavaScript, CI/CD Pipelines, Documentation Feb 2022 - Present
 - **For Detailed view:** [Link to Detailed view](#)

PROJECTS DETAILED VIEW

- **KsctlCli - [Github Link](#)** Cloud Agnostic Kubernetes management tool
Sep 2022 - Sep 2025
 - Founder & Lead Developer
 - A Generic Kubernetes Management CLI tool for various cloud providers
 - Worked with NATS and event-driven patterns in internal tools.
 - Integrated with MongoDB, SQLite (Turso), Docker, and Kubernetes APIs.
 - Tech: Go, Kubernetes, AWS, Azure, Civo, GCP, Docker, Cosign, System Design
- **WAE - WASI App Experiment - [Link](#)** AI and WASM
Jul 2024 - Aug 2024
 - Creator and Maintainer, Wattime, OpenAI, WASM
 - Built a modular WebAssembly (WASI) app using multiple language runtimes for end-to-end automation.
 - Demonstrated multi-service orchestration with persistent local storage and cross-component comms.
 - was able to achieve multi language code base on single build system by using WASI@v2
 - Tech: Rust, WASM, Python, OpenAI, WattTime, GitHub API
- **Chat bot - [Link](#)** LLM and WASM
Jun 2023 - Jul 2023
 - Creator & Maintainer, Transformer, WASM
 - Create HTTP server using rust as a wasm module and have it to handle request for the text2text generator machine learning model running on huggingface
 - Tech: Rust, WASM, Python, FastAPI, HuggingFace

CERTIFICATES

- All certificates and badges [certificates](#)

EDUCATION

- **KIIT University** Bhubaneswar, India
Aug 2020 - Jun 2024
 - Bachelor of Technology in Computer Science; GPA: 9.17

LANGUAGES

- English - Native or bilingual proficiency

VOLUNTEER EXPERIENCE

- **CNCF Green Reviews (Contributor)** Global
 - Aim to measure carbon footprint of CNCF projects
 - Reviewed CNCF projects for sustainability and environmental impact.
 - Worked on SCI scoring and Golang monitoring tooling.
- **Kubesimplify (Ambassador)** Global
 - Simplify Cloud native concepts — created and maintained a project, tech. blogs