

Rajesh Kumar Das

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Skills

- **DevOps and Infrastructure:** Docker, Kubernetes (k3s), Helm, Linux, Cloud (AWS, Azure), GitOps (FluxCD), IaC (Terraform), Ansible, CI/CD (GitHub Actions, Jenkins), Observability (Prometheus, Grafana), YAML, HashiCorp Vault
- **Programming & Scripting:** Python, Bash / Shell Scripting, SQL, PostgreSQL, HTML, CSS, JavaScript, TypeScript, TailwindCSS
- **Other Tools & Practices:** Git, GitHub, JIRA, Agile Methodology, Automation

Experience

KubeCraft

Nov 2024 - Present

DevOps Assistant (Internship)

- Built a secure, production-like **Kubernetes cluster** from a bare-metal **Ubuntu Server** installation using **k3s** with **GitOps workflows** via **FluxCD** and **Helm**, improving deployment reliability and eliminating manual operations.
- Integrated **HashiCorp Vault** with **External Secrets Operator** to enforce centralized secret management and **zero Git exposure**, strengthening security in the cluster.
- Automated **cross-platform environment setup** with **Ansible**, **mise-en-place**, **chezmoi**, and **Bash scripts**, reducing developer onboarding time from **6 hours to 10 minutes**.

Wipro Ltd.

May 2022 - Feb 2024

Project Engineer

- Cut regression testing time by **87%** by automating **AWS data pipeline** validation with **Python** and **Boto3**, saving **120+ hours** monthly.
- Built a cross-database validation tool with **DuckDB** and **SQL**, reducing manual checks by **70%** across **PostgreSQL**, **Oracle**, and **SQL Server**.
- Achieved **95% test automation** by containerizing tools with **Docker**, integrating them into **Jenkins CI/CD** on **OpenShift**.
- Developed **reusable test frameworks** adopted by **5+ teams**, improving standardization and enabling earlier defect detection.
- Enhanced reporting and communication by automating **test result generation** and **email notifications**, accelerating issue resolution and improving transparency across QA and dev teams.

Projects

Cost Cutter

Source Code: github.com/hyp3r00t/CostCutter

- Eliminated **unexpected AWS costs** in sandbox and PoC environments by building **CostCutter**, a tool that enforces a **hard budget ceiling** through automated teardown of costly resources (**EC2**, **S3**, **Lambda**, etc.).
- Engineered an **end-to-end serverless pipeline** with **Terraform-provisioned Budgets**, **SNS**, and **Lambda (boto3)** to detect threshold breaches and trigger cross-service cleanup.
- Delivered a **deterministic cost-control mechanism** with **low operational overhead**, enabling learners and teams to safely experiment in **non-production AWS accounts** without risk of runaway charges.

Homelab

Source Code: github.com/hyp3r00t/homelab

- Eliminated manual operations by building a **Kubernetes homelab** on **Ubuntu Server** with **k3s**, structured through **FluxCD + Kustomize overlays** to enable a fully **declarative GitOps workflow** for modular apps and infrastructure.
- Secured self-hosted apps (**Linkding**, **Mealie**, **Homepage**) using **Cloudflared tunnels**, while integrating **Vault**, **External Secrets Operator**, **cert-manager**, and **CNPG** for centralized secrets, certificate management, and automated database provisioning.
- Automated **reproducible deployments** and **observability** with **Helm + FluxCD** pipelines and **kube-prometheus-stack**, creating a **secure, scalable, and self-healing lab environment**.

Education

National Institute of Technology (NIT, Surat)

Aug 2017 - May 2022

Integrated Master of Science (Physics)

CGPA - 8.72/10

Certification

- Azure Fundamentals (Microsoft) - [Credential ID: 7B93B51D1C06B161](https://certification.microsoft.com/en-us/credential/7B93B51D1C06B161)
- Google IT Automation with Python (Google) - credly.com