

RIDHAM PANSARA

M.Eng. Student | Cloud & DevOps Engineering | Seeking Master's Thesis | Open to Internship & Working Student Roles

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[LinkedIn](#) | [GitHub](#) | [GitLab](#) | [Portfolio](#) | [CloudOps Insight](#)

PROFESSIONAL SUMMARY

M.Eng. student in Computer Engineering for IoT Systems with hands-on experience across Cloud Computing and DevOps, including AWS and OCI, Kubernetes, Terraform, GitOps, CI/CD, platform engineering, cloud security, observability, and FinOps. Built and production-deployed CloudOps Insight, a multi-tenant CloudOps/FinOps platform on OCI Kubernetes Engine (OKE) with secure AWS cross-account integrations. Primarily seeking a master's thesis in Cloud Computing, DevOps, Platform Engineering, Kubernetes, SRE, Cloud Security, Observability, Automation, or FinOps; also open to internship and working-student opportunities in closely related areas.

TECHNICAL SKILLS

Cloud: AWS (STS, IAM, EC2, ECS Fargate, RDS, ECR, ALB, S3, CloudFront, Route 53, CloudWatch, Cost Explorer, Secrets Manager, ACM); OCI (OKE, VCN, NSGs, Object Storage, Block Volume, Vault, IAM); Azure/GCP fundamentals

DevOps, CI/CD & Platform Engineering: Kubernetes, Helm, Argo CD, GitOps, Terraform, Docker, GitHub Actions, GitLab CI/CD, Jenkins, GHCR, Trivy, Git

Backend / Data: Python, FastAPI, Celery, boto3, PostgreSQL, Redis, SQLAlchemy, Alembic, REST APIs, OpenAPI/Swagger

Frontend / Data UI: React, TypeScript, Vite, Tailwind CSS, TanStack Query/Table, ECharts

Security / Reliability: STS AssumeRole, External ID, IAM/RBAC, tenant isolation, OIDC, Sealed Secrets, Cloudflare Tunnel, TLS/HTTPS, health/readiness checks, rollback controls

Linux / Networking: Linux, Bash, SSH, DNS, HTTP/HTTPS, TCP/IP, VPC networking, load balancing

Testing / Quality: Pytest, Ruff, FastAPI TestClient, linting, formatting, container/image scanning

Languages: English (Fluent), German (A2-B1)

EDUCATION

M.Eng. in Computer Engineering for IoT Systems | 2022 - Present

Nordhausen University of Applied Sciences, Germany

B.Eng. in Computer Engineering | 2017 - 2022

Gujarat Technological University, India

PROJECT EXPERIENCE

CloudOps Insight - GitOps & FinOps Platform | [Live](#) | [GitHub](#) | [Case Study](#)

Independent Cloud / DevOps / Platform Engineering Project | Production Live | 2026

- Built and production-deployed CloudOps Insight on OCI Kubernetes Engine (OKE) with React/TypeScript, FastAPI, PostgreSQL, Redis, and Celery.
- Integrated customer AWS accounts with STS AssumeRole and External ID; synchronized inventory, CloudWatch health data, Cost Explorer costs, budgets, incidents, and recommendations.
- Automated GitOps delivery with GitHub Actions, Trivy, GHCR, Helm, and Argo CD using immutable multi-architecture images; managed OCI infrastructure with Terraform.
- Implemented workspace RBAC, tenant isolation, secure secrets, account lifecycle workflows, PostgreSQL backup/restore validation, and production hardening.

Cloud-Native Task Manager on AWS | [GitHub](#)

Independent Cloud & DevOps Project | 2026

- Provisioned a FastAPI service on AWS ECS Fargate using six reusable Terraform modules for networking, security, RDS PostgreSQL, ALB, ECS, and CloudWatch monitoring.
- Built GitHub Actions CI/CD with AWS OIDC, automated database migrations, immutable image tags, deployment stability checks, and HTTPS smoke testing.
- Configured private RDS access, Secrets Manager, IAM role separation, security-group isolation, CloudWatch alarms, rollback controls, and cost-aware start/stop automation.

Cloud Portfolio - AWS S3 + CloudFront | [GitLab](#)

Cloud DevOps & CI/CD Project | Production Live | 2026

- Deployed a production static portfolio using Amazon S3, CloudFront, Route 53, and HTTPS with a custom domain.
- Built a multi-stage GitLab CI/CD pipeline for validation, quality checks, build, local-site testing, S3 deployment, CloudFront cache invalidation, production verification, and rollback support.

GitLab CI/CD Build-Test-Deploy Pipeline | [GitLab](#)

Course Project | 2025-2026

- Created a GitLab CI/CD pipeline for a Node.js/Vite application with dependency installation, build, testing, linting, artifacts, Docker-based runners, and deployments to Netlify, S3, and EC2.

CERTIFICATIONS

- AWS Cloud Practitioner Essentials - AWS Training & Certification (Jan 2026)
- GitLab CI/CD: Pipelines, CI/CD and DevOps for Beginners - Udemy (Jun 2026)
- Docker Essentials: A Developer Introduction - IBM / Cognitive Class (Jun 2026)
- Introduction to Git and GitHub - Google / Coursera (Jan 2026)
- Bash Scripting and Shell Programming - Udemy (Dec 2025)
- Linux Basics: The Command Line Interface - Coursera, Dartmouth & IMT (Nov 2025)