

RIDHAM PANSARA

M.Eng. Student | Cloud & DevOps Engineering | Seeking Master's Thesis / Internship

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PROFILE

Master's student in Computer Engineering for IoT Systems with practical experience in AWS infrastructure, GitLab CI/CD, Docker, Kubernetes, Linux, and cloud security fundamentals. Built and deployed a production portfolio website using Amazon S3 and CloudFront, developed automated build-test-deploy pipelines, and containerized applications using Docker. Actively seeking a master's thesis opportunity in Cloud Computing, DevOps, Cloud Infrastructure, Site Reliability Engineering, or related fields; also open to relevant internship and working student roles.

TECHNICAL SKILLS

Cloud Platforms: AWS—project experience with EC2, S3, CloudFront, Route 53, IAM, VPC, CloudWatch, and Lambda; foundational knowledge of Microsoft Azure and Google Cloud Platform

DevOps & CI/CD: GitLab CI/CD, GitHub Actions, Jenkins, Git

Containers & Orchestration: Docker, Kubernetes, Helm, Ingress

Infrastructure as Code: Terraform, YAML, JSON

Cloud Security: IAM/RBAC, TLS/HTTPS, Encryption, Security Groups, Secrets Management

Monitoring & Observability: Amazon CloudWatch, Prometheus, Grafana

Linux & Networking: Linux, Bash, SSH, DNS, HTTP/HTTPS, TCP/IP, Load Balancing

Programming: Python, Bash, Java, Node.js, C/C++

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 Technical University, India

PROJECTS & PRACTICAL EXPERIENCE

Cloud Portfolio — AWS S3 + CloudFront ([Production Live](#))

[GitLab Repo](#) - 2026

Cloud DevOps & CI/CD Project

- **Deployed** a production static portfolio website using Amazon S3, CloudFront, Route 53, and HTTPS with a custom domain.
- **Built** a five-stage GitLab CI/CD pipeline covering validation, quality checks, application build, S3 synchronization, and CloudFront cache invalidation across 95 repository commits.
- **Implemented** monitoring and rollback support, ensuring reliable and repeatable production deployments.

GitLab CI/CD Build-Test-Deploy Pipeline

[GitLab Repo](#) - 2025 – 2026

Course Project

- **Created** a GitLab CI/CD pipeline for a Node.js/Vite application, automating dependency installation, build, testing, linting, and artifact generation across 186 repository commits.
- **Executed** pipeline jobs in Docker-based runners and managed deployment credentials through GitLab CI/CD variables.
- **Implemented** deployment workflows for Netlify, Amazon S3, and EC2, using SSH and SCP for the EC2 deployment process.

Docker Essentials — Containerized Application Workflow

[Docker Hub](#) - 2025

Course Project

- **Containerized** a Python application with Docker and optimized image layers to produce a 37.59 MB compressed image.
- **Built** a linux/amd64 image and published it to Docker Hub, completing the workflow from Dockerfile creation to registry distribution.

IoT Sensor Prototype — STM32 + LoRa + BME680

[GitHub Repo](#) - 2024

Academic Project · Nordhausen University of Applied Sciences

- **Developed** an STM32 NUCLEO-G071RB prototype and integrated a BME680 sensor through I2C and SPI to collect temperature, humidity, pressure, and gas measurements.
- **Integrated** an SX1262 LoRa HAT for long-range data transmission and implemented UART-based CLI commands for automatic and manual sensor readouts.

- **Evaluated** router throughput and latency using eBPF/XDP concepts and automated measurement collection and analysis with Python and shell scripts across 59 repository commits.

CERTIFICATES & TRAINING

- 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)