

Ritesh Kumar Agrahari

Senior Platform Engineer | DevSecOps Architect | AIOps & LLMOps | Cloud Architecture



CONTACT

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EDUCATION

National University of Singapore
MS, Software Engineering 2017–2019

École Polytechnique Fédérale de Lausanne, Switzerland
Mgmt, Tech & Entrepreneurship 2018

Jaypee Institute of Information Technology, Delhi
B.Tech, Electronics & Comm. 2009–2013

CERTIFICATIONS

Terraform Associate 003
Hashicorp

AWS Solutions Architect – Associate
Amazon Web Services

AWS Security Fundamentals
Amazon Web Services

Foundation of DevOps
ICAgile

Professional Scrum Developer I
Scrum.org

PROFESSIONAL SUMMARY

Senior Platform Engineer & DevSecOps Architect with 11+ years of experience designing and automating enterprise infrastructure across AWS, Azure, and Oracle Cloud. Deep expertise in Kubernetes, Terraform, CI/CD, DevSecOps, and multi-region cloud architecture — delivering high-reliability platforms for global financial, government, and sustainability sector clients. Currently at **Oracle**, driving platform engineering, release management, and Agentic AI infrastructure for flagship OCI products.

IMPACT AT A GLANCE

11+ Years Cloud & DevOps	3 Cloud Platforms	5M+ Customers (DBS)	50+ Countries via Nasdaq	NUS MS · Global Rank #9
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TECHNICAL SKILLS

Cloud Platforms	AWS (EC2, S3, Lambda, EKS, VPC, IAM) · Microsoft Azure (AKS, Azure DevOps) · Oracle Cloud
Containers & Orchestration	Kubernetes · Docker · Helm Charts · ArgoCD · Service Mesh (Istio) · Microservices
CI/CD & Automation	Jenkins · Azure DevOps · GitHub Actions · GitOps · Shepherd · CI/CD Pipelines · Release Management
Infrastructure as Code	Terraform · CloudFormation · Ansible · Configuration Management
DevSecOps & Security	DevSecOps · Vault · SonarQube · Serverless · Cloud Architecture · System Design
Observability	Datadog · Prometheus · Grafana · ELK Stack · AI Observability · Linux
AI & Emerging	Agentic AI · RAG · LLMOps · AWS Bedrock · AI Infra · Cost Optimisation
Scripting & Tools	Python · Bash · GIT · SonarQube

WORK EXPERIENCE

Oracle, Bangalore, India
Senior Member of Technical Staff

Nov 2023 – Present

- ▶ Led release management, environment upgrades, and deployment automation for two OCI cloud products — **OCI Data Catalog (DCAT)** and **AI Data Platform (AIDP)** — across dev, staging, and production environments.
- ▶ Provisioned and maintained multi-region OCI infrastructure using **Terraform**, ensuring consistent, reproducible environments and eliminating manual configuration drift.
- ▶ Orchestrated automated deployment pipelines via **Shepherd** (Oracle's in-house CI/CD platform), streamlining structured rollouts across global OCI regions and improving release cadence.
- ▶ Implemented **DevSecOps** practices including secrets management via Vault, static code analysis with SonarQube, and security-gated CI/CD pipelines across multi-region OCI deployments.

- ▶ Built Python-based automation scripts for operational tasks including deployment validation, health checks, and upgrade orchestration, reducing manual toil significantly.

PALO-IT, Singapore

Sep 2018 – Oct 2023 (5 yrs)

Senior Cloud & DevOps Consultant

- ▶ Architected cloud infrastructure for **Climate ImpactX (CIX)** — Singapore's global carbon exchange backed by DBS, SGX, Standard Chartered & Temasek on Nasdaq's platform, processing 12,000 tonnes of carbon credits on day one across 50+ countries.
- ▶ Engineered **multi-cloud (AWS + Azure)** pipeline connecting CIX's microservices to Nasdaq's trading technology, enabling real-time spot trading of standardised carbon contracts globally.
- ▶ Built serverless backend and full-stack frontend for **DBS Retail Marketplace** — unifying Singapore Airlines, property listings, car deals, and financial products under one payment engine for **5+ million customers**.
- ▶ Deployed cloud infrastructure for **HDB's automated parking system** — operational across **1.25 million** housing units, covering tracking, payments, and partner API integration.

AELER Technologies (Start-Up), Lausanne, Switzerland

Jan 2018 – Jul 2018

Full Stack Developer

- ▶ Bootstrapped AELER's entire engineering stack as the **first technical hire**, enabling the startup to go from zero to a fully operational IoT platform post-founding.
- ▶ Built a real-time **fleet management dashboard** integrating live IoT sensor data from smart containers — enabling GPS tracking, condition monitoring, and shipment analytics.

British Telecom, Bangalore, India

Jun 2016 – Nov 2016

Senior Software Engineer

- ▶ Built a **centralised bandwidth capacity management portal** — real-time regional visibility and automated, client-driven allocation from a single interface.
- ▶ Consolidated fragmented capacity planning company-wide, eliminating manual bandwidth allocation and reducing provisioning time per client request.

Accenture Private Limited (Cisco), Bangalore, India

Aug 2013 – May 2016

Software Engineer

- ▶ Modernised Cisco's legacy UI stack from jQuery/server-side rendering to **Angular 1.0**; built enterprise middleware using Java/J2EE, Spring, Struts 2.x, EJB, and Hibernate across multiple modules under agile SDLC.

NOTABLE ACHIEVEMENTS

International

- ▶ Earned MS from NUS (Global Rank #9), one of Asia's most competitive postgraduate programmes.
- ▶ Completed a 6-month entrepreneurship programme at EPFL — one of Europe's top technical universities.
- ▶ Part of one of EPFL's most innovative startups — AELER Technologies — where cutting-edge IoT meets carbon fibre engineering in smart intermodal shipping containers.
- ▶ 6 years of professional experience based in Singapore, serving startups and Fortune 500 international clients.

NUS Overseas College (NOC)

- ▶ Selected among NUS's outstanding students for the competitive National Overseas College programme — a startup immersion initiative for entrepreneurial students.

KEY PROJECTS

AI Data Platform (AIDP) — Oracle, Bangalore

Senior Member of Technical Staff

Oracle's flagship Agentic AI product within Oracle Analytics Cloud — uniting OCI, Autonomous AI Database, and Generative AI services to build and deploy enterprise AI agents at scale.

- ▶ Provisioned and managed multi-environment OCI infrastructure using Terraform, ensuring consistent and reproducible deployments across dev, staging, and production with zero configuration drift.
- ▶ Orchestrated structured release pipelines and multi-region rollouts via Shepherd, significantly improving deployment reliability and release cadence.

- ▶ Managed full environment lifecycle — configuration, upgrades, and teardown — across AIDP's cloud-native microservice components.

[Oracle Cloud](#) [Kubernetes](#) [Terraform](#) [Shepherd \(CI/CD\)](#) [Helm Chart](#) [Python](#) [Agentic AI](#) [Release Management](#)

OCI Data Catalog (DCAT) — Oracle, Bangalore

Senior Member of Technical Staff

Oracle's fully managed metadata governance service — providing a unified metastore and business glossary across OCI, integrated with Autonomous Database and OCI Data Flow.

- ▶ Owned end-to-end release management and upgrade cycles for DCAT across multiple OCI regions, ensuring zero-downtime deployments and SLA compliance.
- ▶ Built reusable Terraform modules for rapid, consistent environment creation and reduced onboarding time for new OCI regions.
- ▶ Automated deployment and upgrade orchestration using Shepherd, replacing manual steps with structured, auditable pipeline workflows.

[Oracle Cloud](#) [Kubernetes](#) [Terraform](#) [Shepherd \(CI/CD\)](#) [Helm Chart](#) [Release Management](#) [Infrastructure Automation](#)

Climate ImpactX (CIX) — Singapore

Senior DevOps Engineer

Global exchange for voluntary carbon credits; implemented microservice infrastructure on Azure and pioneered Nasdaq connectivity via multi-cloud architecture.

- ▶ Orchestrated cloud capacity planning and full Kubernetes cluster setup with associated services on Azure.
- ▶ Automated deployments via Terraform templates; enforced GitOps with ArgoCD and Helm Charts.
- ▶ Enabled multi-cloud (AWS + Azure) connectivity pipeline to NASDAQ trading infrastructure.

[Azure](#) [Azure DevOps](#) [AWS](#) [Terraform](#) [Kubernetes](#) [Helm](#) [ArgoCD](#) [SonarQube](#) [Python](#) [Service Mesh](#)

AELER (Start-Up) — Switzerland

Full Stack Developer

IoT-enabled intermodal shipping container platform reducing operating costs, fuel use, and enabling real-time sensor monitoring.

- ▶ Delivered MVP end-to-end: application design, NoSQL integration, and WebSocket-based live updates.
- ▶ Built an interactive graph dashboard using React and D3 for sensor output and shipment tracking.

[ReactJS](#) [Redux-Saga](#) [TypeScript](#) [NodeJS](#) [MongoDB](#) [WebSocket](#) [AWS](#)

PUBLICATIONS

Azure DevOps as One-Stop Shop

medium.com/paloit

Multicloud Exploration

medium.com/@ritesh.nus