

Ajay Rajput

DEVOPS ENGINEER · SITE RELIABILITY ENGINEER · PLATFORM ENGINEER

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"Be the change that you want to see in the world."

Summary

A seasoned DevOps and Cloud Engineering leader with extensive experience at Thomson Reuters and Collins Aerospace. Combines a strong background in software development with deep expertise in cloud platforms (AWS, Azure), Infrastructure as Code, containerization (Docker, Kubernetes), and large-scale system automation. Passionate about building resilient platforms and fostering a culture of continuous improvement.

Technical Skills

Cloud and DevOps	Docker, Kubernetes, Ansible, AWS, Azure, Terraform
CI/CD and Version Control	Azure DevOps, GitHub Actions, Git, Jenkins, SVN, JIRA
Monitoring and Security	Datadog, Prometheus, Grafana, AWS CloudWatch
Programming and Observability	Python, C/C++, Bash, PowerShell
Databases and Testing	PostgreSQL, MySQL, MongoDB, DynamoDB, PostgresSQL, PyTest, TestNG
Security and Compliance	AWS IAM, HashiCorp Vault, SSL/TLS, RBAC, ELK Stack

Certifications

- 2022 Certified SAFe 6 Agilist, Scaled Agile Framework, Scaled Agile, Inc.
2022 Certified SAFe 6 Product Owner/Product Manager, Scaled Agile Framework, Scaled Agile, Inc.
2022 Certified Scrum Product Owner (CSPO), Agile Product Management, Scrum Alliance

Work Experience

Thomson Reuters

Gdansk, Poland

LEAD SERVICE RELIABILITY ENGINEER

February 2024 - Present

- Led infrastructure setup for GCC Control Plane Project dashboard application across beta, development, and production environments
- Architected and deployed comprehensive CI/CD pipelines using GitHub Actions, reducing deployment time by 60% and eliminating manual interventions
- Developed multiple AWS Lambda functions for automated incident management, processing 1,000+ alerts daily with 99.8% accuracy
- Integrated Datadog webhooks with DynamoDB for real-time alert processing and built RAG chains for chatbot functionality
- Reduced manual monitoring overhead by 70% through centralized dashboard implementation, replacing fragmented processes
- Established automated workflows for Log and Refer processes, improving processing speed by 80% on AWS infrastructure
- Onboarded 15+ applications to support L1 team operations and mentored 5+ engineers on DevOps best practices
- Spearheaded 24/7 Global Command Center technical operations, leading incident response for 500+ monthly incidents

Collins Aerospace (formerly Raytheon Technologies)

Bengaluru, IN / Cedar Rapids, USA

DEVOPS ENGINEER

October 2016 - October 2022

- Architected AWS cloud infrastructure using Terraform for FlightHub Flight Profile Optimization, managing 50+ EC2 instances
- Containerized application components using Docker and deployed Kubernetes clusters supporting 200+ microservices with 99.9% uptime
- Constructed comprehensive CI/CD pipelines using GitHub Actions with automated testing, reducing deployment failures by 80%
- Engineered secure VPC architecture with proper subnet configuration, API Gateway integration, and SSL/TLS certificate management
- Deployed monitoring and observability solutions using Prometheus, Grafana, and ELK stack for real-time system insights
- Configured AWS Elastic Load Balancing and auto-scaling mechanisms, reducing infrastructure costs by 25% annually
- Established security best practices using AWS IAM, Secrets Manager, and role-based access control across all environments
- Managed CI/CD pipelines in Azure DevOps and executed comprehensive monitoring using CloudWatch and custom dashboards

Tata Consultancy Services

Bengaluru, India

SYSTEMS ENGINEER

November 2015 - September 2016

- Conducted comprehensive code reviews and debugging for embedded systems, ensuring 99.9% system reliability
- Led test strategies and verification processes using LDRA and RT tester tools, improving code quality by 40%
- Delivered high-quality systems conforming to Software Design Document standards for 5+ aerospace applications
- Deployed automated testing frameworks, reducing manual testing effort by 50% and accelerating release cycles

CYIENT Ltd

SOFTWARE ENGINEER

- Developed Cockpit Panel Manager applications for aerospace systems, ensuring compliance with aviation standards
- Performed functional testing and hardware/software integration testing, achieving 95% test coverage
- Created comprehensive test scenarios and executed automated test suites, reducing testing cycle time by 30%
- Collaborated with cross-functional teams of 12+ engineers to deliver mission-critical avionics software

Bengaluru, India

January 2014 - July 2015

IAP Company Pvt Ltd

Gurugram, India

PROGRAMMER

- Developed automated test procedures in C and Python, improving testing efficiency by 60%
- Executed testing based on low-level Software Design Document specifications with 100% requirements traceability
- Enhanced software testing lifecycle through refined manual test cases and automation frameworks
- Contributed to embedded systems development for industrial automation projects, delivering 4+ client solutions

January 2012 - December 2013

Key Projects

Thomson Reuters

Infrastructure & Platform Engineering

GCC CONTROL PLANE

2024

- Engineered complete infrastructure setup for L1 Support Team dashboard application across multiple environments
- Constructed comprehensive CI/CD pipelines using GitHub Actions with automated testing, reducing deployment time by 75%
- Developed AWS Lambda functions for automated incident management, processing real-time alerts with 99.5% accuracy
- Integrated Datadog webhooks with DynamoDB for scalable alert processing and deployed RAG chains for intelligent responses
- Achieved 70% reduction in manual monitoring time through centralized dashboard, replacing fragmented processes

Thomson Reuters

Automation & Efficiency

PROCESS AUTOMATION INITIATIVE

2024

- Identified and systematized critical manual engineering processes, including Log and Refer automation
- Executed Transcharge Automation on AWS infrastructure, reducing processing time by 80%
- Engineered automated workflows that eliminated repetitive tasks and improved operational efficiency by 45%
- Reduced operational overhead and improved team productivity through strategic automation initiatives

Personal Open Source Project (In Development)

Creator & Lead Developer

MODELUXER - ENTERPRISE LLM ROUTING PLATFORM

2025 - Present

- Architecting enterprise-grade LLM routing platform using FastAPI and microservices architecture
- Executing intelligent routing strategies (cascade, semantic, heuristic, hybrid) targeting 70% cost optimization
- Engineering multi-provider integration supporting OpenAI, Anthropic, Google, Mistral, Groq, and LiteLLM
- Constructing a comprehensive cost optimization system with real-time budget management and usage analytics
- Developing enterprise security features including JWT authentication, RBAC, and audit logging
- Creating Kubernetes-native deployment architecture with high availability and observability stack
- Building custom containerization solutions with auto-detection for Docker and Apple Container platforms
- Targeting less than 200ms routing decision time and 10,000+ requests/minute throughput optimization

Collins Aerospace

Cloud Infrastructure & DevOps

FLIGHTHUB FLIGHT PROFILE OPTIMIZATION

2020-2022

- Architected AWS cloud infrastructure using Terraform, provisioning EC2 instances, RDS databases, and S3 storage for flight optimization data supporting 10,000+ daily calculations
- Containerized application components using Docker and deployed Kubernetes clusters with auto-scaling and high availability supporting 200+ microservices
- Executed secure VPC architecture with proper subnet configuration, API Gateway, and SSL/TLS certificate management protecting 50+ API endpoints
- Constructed monitoring and observability solutions using Prometheus, Grafana, and ELK stack for real-time system insights processing 2M+ daily events
- Configured AWS Elastic Load Balancing and deployed auto-scaling mechanisms based on demand patterns, optimizing costs by 25% annually
- Established comprehensive security using AWS IAM, Secrets Manager, and role-based access control across 100+ cloud resources

Education

Purdue University Online

Online

POSTGRADUATE DEGREE IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

2021 - 2022

Sikkim Manipal University

MASTER OF BUSINESS ADMINISTRATION (INFORMATION TECHNOLOGY)

Bengaluru, India

2015 - 2017

Uttar Pradesh Technical University (UPTU)

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Ghaziabad, India

2008 - 2011

Board of Technical Education (BTE)

DIPLOMA IN COMPUTER SCIENCE AND ENGINEERING

Lucknow, India

2005 - 2008

Open Source and Professional Development

ModelMuxer - Enterprise LLM Routing Platform

Personal Open Source Project

CREATOR & LEAD DEVELOPER

2025 - Present

- Developing enterprise-grade LLM routing platform with intelligent cost optimization targeting 70% cost reduction
- Executing microservices architecture using FastAPI, Kubernetes, and multi-provider AI integration
- Constructing a comprehensive security framework with JWT authentication, RBAC, and audit logging
- Engineering containerization solutions with auto-detection for Docker and Apple Container platforms
- Architecting observability stack with Prometheus, Grafana, and distributed tracing capabilities

Awards and Recognition

APR 2025 **Innovation Award**, Outstanding contribution to process automation and technical innovation

Thomson Reuters

MAR 2021 **Star Award**, Excellence in project delivery and technical leadership

Collins Aerospace

APR 2021 **Star Award**, Excellence in project delivery and technical leadership

Collins Aerospace

SEP 2020 **QUADRANT Award**, Recognition for exceptional performance and team collaboration

Collins Aerospace

SEP 2020 **PAT on the Back**, Appreciation for outstanding technical contributions

Collins Aerospace

Languages

Native	Hindi
Proficient	English

Achievements and Strengths

Streamlined Deployments Implemented CI/CD pipelines, enabling daily updates and faster releases.

Cloud Migration Champion Led full-scale migration to cloud, reducing infra costs by 30%.

Problem-Solving Resolving complex issues, improving uptime.

Collaboration Driving cross-team efficiency and productivity (+25%)