



# Rohit Sapkota

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## EXPERIENCE

### RACING AND WAGERING WESTERN AUSTRALIA (RWWA) — DevOps Engineer | Feb 2023 – Present

- Led a CI/CD modernisation initiative migrating from GitLab to GitHub Actions, reducing deployment time by ~30% and significantly improving release reliability.
- Eliminated frequent pipeline failures by decommissioning unstable legacy tooling (JFrog Artifactory, AWX), resulting in near-zero CI/CD failures post-migration.
- Reduced platform complexity by consolidating CI/CD and deployment workflows on GitHub and AWS-native services, lowering operational overhead.
- Designed and automated CI/CD workflows using Bash and Python, enabling faster, reproducible iteration cycles for data- and AI-driven workloads.
- Implemented infrastructure as code using Pulumi (TypeScript) to provision modern cloud stacks, improving consistency, traceability, and deployment safety.
- Built event-driven AWS Lambda automation to monitor Windows and Linux AMI updates and trigger downstream build pipelines, improving security posture and eliminating manual checks.
- Operated and scaled Kubernetes infrastructure on AWS EKS, ensuring highly available execution environments for platform, data, and automation workloads.
- Automated change management by integrating CI/CD workflows with Jira Service Management(JSM) via REST and GraphQL APIs, reducing manual approvals and improving end-to-end release throughput.

### DDD PERTH — Volunteer Team Lead | September 2025

- Led a volunteer team, coordinating delivery and technical direction for community-driven initiatives.

### INFODEVELOPERS PVT. LTD., Nepal — Software Engineer | Nov 2020 – Mar 2022

- Built a Java Spring Boot platform automating government workflows, reducing manual processing by approximately 80%.
- Designed RESTful APIs and contributed to a microservices architecture improving scalability, integration, and system reliability.
- Integrated digital signature and secure authentication mechanisms to protect sensitive data.

## PROJECTS

### Enterprise CI/CD Modernisation and GitHub Migration (RWWA)

- Architected and executed a migration from GitLab to GitHub Actions, consolidating CI/CD tooling and removing multiple failure-prone dependencies.
- Standardised pipeline patterns and IaC-driven deployments, improving reliability, maintainability, and auditability across services.
- Enabled faster, more reproducible deployments suitable for AI experimentation and model lifecycle workflows.

### Federated Anomaly Detection for IoT (Curtin University)

- Designed a federated learning architecture enabling privacy-preserving anomaly detection across distributed IoT devices.
- Validated the approach using TensorFlow Federated, enabling secure training on high-sensitivity datasets without centralising data.

### Generative AI Gambling Help Chatbot (RWWA Hackathon)

- Built a generative AI chatbot providing anonymous, empathetic support using GPT-based LLMs and prompt engineering.

## CERTIFICATIONS

- Design, Develop, and Deploy Multi-Agent Systems with CrewAI — DeepLearning.AI (Jan 2026)
- Agentic AI — DeepLearning.AI (Nov 2025)
- Deep Learning Specialisation — DeepLearning.AI (Oct 2025)
- Sequence Models — DeepLearning.AI (Oct 2025)
- Convolutional Neural Networks — DeepLearning.AI (Apr 2025)
- Structuring Machine Learning Projects — DeepLearning.AI (Apr 2025)
- AWS Certified AI Practitioner — AWS (Apr 2025)
- Improving Deep Neural Networks: Hyperparameters, Tuning, Regularisation and Optimisation — DeepLearning.AI (Apr 2025)
- Neural Networks and Deep Learning — DeepLearning.AI (Mar 2025)
- Generative AI with Large Language Models — DeepLearning.AI, AWS (Mar 2025)
- CCNA: Enterprise Networking, Security and Automation — Cisco (Jun 2024)
- CCNA: Switching, Routing, and Wireless Essentials — Cisco (Jun 2024)
- CCNA: Introduction to Networks — Cisco (Jun 2024)
- Linear Algebra for Machine Learning and Data Science — DeepLearning.AI (Jan 2024)
- Foundations of Project Management — Google (Dec 2022)
- Learning How to Learn — Deep Teaching Solutions (Dec 2022)
- Python Programming: A Concise Introduction — Wesleyan University (Dec 2022)
- Curtin Leaders Program — Curtin University (Nov 2022)
- Google Cloud – Scientific Data Processing — Google Cloud Skills Boost (May 2019)
- Google Cloud – Baseline: Data, ML, AI — Google Cloud Skills Boost (Mar 2019)