Rohit Sapkota

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EDUCATION

CURTIN UNIVERSITY, AUSTRALIA February 2022-June 2024
Masters of Computing (Major in Computer Science)

EXPERIENCE

RACING AND WAGERING WESTERN AUSTRALIA (RWWA) Feb 2023 - Present DEVOPS ENGINEER

- ➢ Optimized GitLab CI/CD pipelines with Bash, collaborating with cross-functional teams, and providing expertise in Git, GitLab, JFrog Artifactory, AWX/Ansible, and CICTL (internally developed Python-based automation tool).
- ➢ Automated change request workflows in GitLab CI using CICTL, integrating Jira Cloud APIs and GraphQL to enhance Jira Service Management efficiency.
- ➢ Developed a Python-based AWS Lambda function to automate the monitoring of AMI updates for Windows and Linux instances, eliminating manual checks and triggering build pipelines for customization.
- ➢ Managed Kubernetes infrastructure on AWS EKS (GitLab runners, JFrog Artifactory, Rancher, AWX), ensuring high availability and seamless operations.
- ➢ Contributed to R&D for system modernization, assessing emerging technologies to enhance infrastructure scalability, performance, and operational efficiency.

DDD PERTH September 2025
VOLUNTEER - TEAM LEADER

INFODEVELOPERS PVT. LTD. NEPAL November 2020 - March 2022 SOFTWARE ENGINEER

- ➢ Led Agile-driven project iterations, ensuring timely delivery of milestones and continuous development improvements.
- ➢ Developed a Java Spring Boot solution to automate government workflows, reducing manual processes by 80%.
- ➢ Designed and implemented RESTful APIs, enhancing system integration and enabling seamless interoperability across platforms.
- ➢ Integrated digital signature functionality, securing sensitive data and preventing tampering during transmission. Collaborated with cross-functional teams to deploy a microservices-based architecture, optimizing scalability and performance for web and mobile platforms.
- ➢ Developed a food ordering management system using Java, JSP, and Servlets, improving order processing efficiency and user experience.

CERTIFICATIONS

- Design, Develop, and Deploy Multi-Agent Systems with CrewAI - ***DeepLearning.ai*** January 2026
- Agentic AI - ***DeepLearning.ai*** November 2025
- Deep Learning Specialization - ***DeepLearning.ai*** October 2025
- Sequence Models - ***DeepLearning.ai*** October 2025
- Convolutional Neural Networks - ***DeepLearning.ai*** April 2025
- Structuring Machine Learning Projects - ***DeepLearning.ai*** April 2025
- AWS Certified AI Practitioner - ***Amazon Web Services*** April 2025
- Improving Deep Neural Networks: Hyperparameters, Tuning, Regularization and Optimization - ***DeepLearning.AI*** April 2025
- Neural Networks and Deep Learning - ***DeepLearning.AI*** March 2025
- Generative AI with Large Language Models - ***DeepLearning.AI, Amazon Web Services*** March 2025
- CCNA: Enterprise Networking, Security and Automation - ***Cisco*** June 2024
- CCNA: Switching, Routing, and WIreless Essentials - ***Cisco*** June 2024
- CCNA: Introduction to Networks - ***Cisco*** June 2024
- Linear Algebra for Machine Learning and Data Science - ***DeepLearning.AI*** January 2024
- Foundations of Project Management - ***Google*** December 2022
- Learning How to Learn - ***Deep Teaching Solutions*** December 2022
- Python Programming: A Concise Introduction - ***Wesleyan University*** December 2022
- Curtin Leaders Program - ***Curtin University*** November 2022
- Google Cloud-Scientific Data Processing - ***Google Cloud Skills Boost*** May 2019
- Google Cloud-Baseline:Data, ML, AI - ***Google Cloud Skills Boost*** March 2019

PROJECTS

ANOMALY DETECTION IN IOT DEVICES USING FEDERATED LEARNING (*Curtin University*)
Centralized models for anomaly detection in IoT proved impractical due to the scarcity of publicly available security datasets. To resolve this, a federated learning architecture was designed, allowing model training across devices while preserving user data privacy by transmitting only aggregated model weights to a central server. This solution, validated with TensorFlow's Federated Core framework, enables the use of high-security datasets while ensuring data confidentiality.

TECHNOLOGIES USED:
- ➢ Python
- ➢ Tensorflow (Federated Core)

GAMBLING HELP CHAT BOT (*RWWA Hackathon 2023*)
Created a chatbot providing a safe, anonymous space for individuals struggling with Gambling addiction, offering tailored suggestions and enabling users to express their concerns freely.

TECHNOLOGIES USED:
- ➢ Gen AI/ Generative Artificial Intelligence
- ➢ Python
- ➢ LLM: gpt-3.5 Turbo
- ➢ Streamlit
- ➢ Prompt Engineering

GOVERNMENT INTEGRATED OFFICE MANAGEMENT SYSTEM (GIOMS) (*Infodevelopers)*
Government organizations in Nepal relied on multiple disparate systems for tasks such as employee attendance, document creation, approval, and management, with separate systems for office and employee data. Additionally, much of the work remained paper-based, and existing systems were not equipped for full digitization. This systemwas developed to integrate these functions into a unified solution, designed for adoption across all government offices in Nepal.

TECHNOLOGIES USED:
- ➢ Microservice Architecture
- ➢ Java, Springboot Framework
- ➢ API based system (RESTful API)
- ➢ Digital Signature
- ➢ Keycloak and Single Sign On
- ➢ PostgreSQL database