Blossom Williams
Senior MLOps Engineer

SUMMARY

Highly skilled MLOps Engineer with extensive experience in building, deploying, and scaling machine learning models in production environments. Proficient with a range of cloud platforms (AWS, Azure, GCP) and containerization tools (Docker, Kubernetes), adept at implementing CI/CD pipelines (Jenkins, GitHub Actions) for reduced deployment time by 40%, and well-versed in MLOps/DevOps integration for efficient ML model lifecycle management. Holds a strong foundation in computer science with an M.Sc. degree and multiple certifications including AWS Machine Learning Specialty. Proven track record with project achievements like developing an ETL pipeline for real-time analytics and achieving a 20% reduction in transaction fraud through a real-time fraud detection system.

TECHNICAL SKILLS

Main Technical Skills	AWS, CI/CD (3 yr.), Kubernetes, Docker, Python (5 yr.)
Programming Languages	Python (5 yr.)
Java Frameworks	Apache Spark (3 yr.)
Scala Frameworks	Apache Spark (3 yr.)
AI & Machine Learning	Kubeflow (2 yr.)
Data Analysis and Visualization Technologies	Apache Airflow, Apache Spark (3 yr.), DVC
Databases & Management Systems / ORM	Apache Spark (3 yr.), AWS DynamoDB, ELK stack (Elasticsearch, Logstash, Kibana), MongoDB
Cloud Platforms, Services & Computing	AWS, Azure ML
Amazon Web Services	AWS Cloudformation, AWS CloudWatch, AWS DynamoDB, AWS LightSail
Deployment, CI/CD & Administration	Ansible, CI/CD (3 yr.), GitLab CI, Helm, Jenkins (3 yr.)
Virtualization, Containers and Orchestration	Docker, Kubernetes
Version Control	Github Actions (2 yr.)
Message/Queue/Task Brokers	Kafka (3 yr.)
Platforms	Microsoft Power Platform

Logging and Monitoring	Prometheus

WORK EXPERIENCE

MLOps Engineer, End-to-End ML Pipeline with Kubeflow

Duration: Unknown specific duration within December 2020 – Present

Summary: Designed and implemented an end-to-end machine learning pipeline with Kubeflow on Kubernetes, focusing on reproducibility and scalability for high-volume daily predictions.

Responsibilities: Automated data ingestion, preprocessing, model training, and deployment using Kubeflow and MLflow.

Technologies: Kubernetes, Kubeflow, MLflow

MLOps Engineer, Real-Time Fraud Detection System

Duration: Unknown specific duration within December 2020 – Present

Summary: Implemented a real-time fraud detection system using a PyTorch-based model which integrated with Kafka and Spark, achieving a 20% reduction in transaction fraud.

Responsibilities: Deployed the PyTorch fraud detection model and integrated with Kafka and Spark for real-time inference on AWS.

Technologies: PyTorch, Kafka, Spark, AWS

DevOps/Cloud Engineer, Cloud Infrastructure and ML Orchestration

Duration: June 2017 – December 2020

Summary: Containerized ML applications and orchestrated with Kubernetes for enhanced scalability and fault tolerance for big data and ML workloads.

Responsibilities: Built and maintained cloud infrastructure, developed ETL pipelines, implemented monitoring and alerting systems.

Technologies: AWS, Azure, Docker, Kubernetes

EDUCATION

- **M.Sc. in Computer Science**
- Memorial University of Newfoundland
- **M.Sc. in Computer Science**
- University of Debrecen
- **B.S. in Computer Science**
- Redeemer's University

CERTIFICATION

- **AWS Certified Machine Learning – Specialty**
- **TensorFlow Developer Certificate**
- **Microsoft Certified: Azure Data Scientist Associate**