

FRANK DE LA MOTA

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PROFESSIONAL SUMMARY

AWS-certified ML Engineer and Solutions Architect with 5+ years of software development experience, specializing in GenAI multi-agent systems (AWS Bedrock) and serverless MLOps pipelines. Delivered 4 production-grade projects end-to-end, from architecture to deployment using Terraform.

PROFESSIONAL EXPERIENCE

Self Employed

Freelance Cloud & AI Engineer

Remote

January 2025 - Present

- Designed and deployed 4 production-grade AWS projects spanning GenAI multi-agent systems (Bedrock), MLOps pipelines (SageMaker), and real-time data streaming (Kinesis), with full Terraform IaC throughout.
- Built end-to-end serverless architectures (Lambda, API Gateway, DynamoDB, S3, CloudFront) across healthcare, fintech, and e-commerce domains.
- Contracted with a construction industry client to modernize their interface by migrating from ASP.NET to TypeScript/React, improving usability and performance.

SWK Technologies Inc

Systems Administrator

Remote

September 2024 - January 2025

- Led migration of legacy financial software to a modern cloud platform, modernizing core operations.
- Designed and implemented cross-departmental analytics dashboards to track operational KPIs and produced financial reports for C-suite leadership.
- Administered user access controls and server security, enforcing least-privilege principles across the organization.

Software Developer

October 2022 - September 2024

- Engineered 100+ Acumatica customizations using C# and SQL, resolving support tickets, reducing recurring bugs, and accelerating deployment cycles — contributing to 300%+ revenue growth for the development team in the first year.
- Developed 50+ client-facing billing, invoicing, and financial summary reports and dashboards for 20+ clients, improving transparency and reducing back-and-forth between clients and internal teams.

CES Consultants

Data Analyst

Pembroke Pines, FL, USA

January 2021 - July 2022

- Customized CRM, project management, and contract modules to streamline operations across departments, reducing time spent by managers and employees by 20%.
- Built Power BI KPI dashboards to optimize decision-making and forecasting, improving visibility into operational performance and strategic planning.

PROJECTS

FraudDetection — MLOps Fraud Detection Pipeline | <https://github.com/frankdelamota/frauddetection>

- Built a production-ready real-time fraud detection system using SageMaker Serverless Endpoints with Isolation Forest, streaming transactions via Kinesis Firehose to an S3 data lake with automated weekly retraining via Step Functions.

DataFlow — Real-Time E-Commerce Event Streaming Pipeline | <https://github.com/frankdelamota/dataflow>

- Architected a serverless Kinesis Data Streams pipeline ingesting 6 event types, processing with Lambda consumers into DynamoDB + S3, with per-minute metric aggregation and anomaly alerting via SNS.

MedRecord — AI Medical Record Analysis Platform | <https://github.com/frankdelamota/medrecord>

- Engineered a multi-agent RAG system using Bedrock Knowledge Base (OpenSearch Serverless + Titan Embeddings) to classify, extract, and risk-score clinical documents against ICD-10 codes, lab ranges, and drug interaction guidelines.

PolicyGuard — Multi-Agent IAM Security Analyzer | <https://github.com/frankdelamota/policyguard>

- Developed a 5-agent LLM pipeline (Claude 3.5 Sonnet + Haiku via AWS Bedrock) that analyzes IAM policies for security risks, scores compliance against CIS/NIST 800-53 frameworks, and generates least-privilege remediation — serverless on Lambda + SQS + DynamoDB.

SKILLS

Cloud/AWS: Lambda, API Gateway, SageMaker, Bedrock, Kinesis, S3, DynamoDB, CloudWatch, Step Functions, Glue, CloudFormation, CloudFront

Languages: Python, TypeScript, C#, PostgreSQL, SQL

Frontend: React, Next.js, React Native

ML/AI: PyTorch, TensorFlow, Scikit-learn, LangChain, NLP, Pandas, NumPy, Matplotlib, MLOps

DevOps/Infra: Terraform, Docker, Kubernetes, Linux, Git

Data/BI: Tableau, Power BI

Other: Acumatica

CERTIFICATIONS

AWS Machine Learning Engineer Associate (Feb 2025 - Feb 2028), AWS Solutions Architect Associate (Sept 2025 - Sept 2028)

EDUCATION

CUNY - Brooklyn College

Master's, Business Intelligence and Data Analysis

August 2019 - May 2020

CUNY - Lehman College

Bachelor's, Economics

January 2017 - December 2018