

Nkosi Felix

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Forward Deployed Engineer | AI Infrastructure, Distributed Systems, Enterprise Integration

PROFESSIONAL SUMMARY

Forward-deployed backend/platform engineer with 5+ years building AI infrastructure, distributed data systems, and enterprise integrations. Strongest proven delivery is in Python, SQL, Java/Spring, Kafka, PostgreSQL, Microsoft Graph/SharePoint, and governed automation, with growing Go/Golang experience and Rust exposure. At Universal Creative/NBCUniversal, engineered a deterministic Python service for construction and engineering PDFs using checkpointed Microsoft Graph/SharePoint intake, content hashes, eTags, atomic landing, parser orchestration, canonical outputs, provenance, replay-safe receipts, and explicit failure states. The architecture demonstrates backend engineering principles that translate across modern service implementations: explicit state, deterministic execution, bounded side effects, validated contracts, observability, and auditable recovery.

TECHNICAL STRENGTHS

Backend & Distributed Systems: Python, Go/Golang, SQL, Java 17, Spring Boot, Kafka, PostgreSQL, REST APIs, explicit state machines

AI & Document Infrastructure: PDF/document parsing, canonical bundles, manifests, provenance, parser routing, normalized outputs, human-in-the-loop validation, RAG, embeddings

Enterprise Integration: Microsoft Graph, SharePoint, OneDrive, checkpointing, eTags, delta sync, Azure Data Factory, Entra ID, API integration

Reliability & Delivery: bounded side effects, failure isolation, deterministic recovery, Docker, Kubernetes-adjacent deployment concepts, GitLab CI/CD, Maven, JUnit 5, Mockito, Prometheus, Grafana, Loki, correlation IDs

Forward-Deployed Execution: customer discovery, requirements translation, thin vertical slices, enterprise workflow integration, operator validation, runbooks, ADRs, security and governance

Product & Frontend Delivery: TypeScript/Vite, responsive PWAs, AI-assisted interfaces, conversational UX, commerce integration, product data, privacy boundaries, deployment and release validation

PROFESSIONAL EXPERIENCE

Lead Software Engineer, Data Platform (W2 Contract) | Universal Creative / NBCUniversal | Orlando, FL | 02/2026 - 05/2026

- Engineered the team's first deterministic Python ingestion service for construction and engineering PDFs, including CAD-related drawings, railings, marine/boat packages, and Tokyo-originating documents, replacing manual handoffs with a replay-safe processing pipeline.
- Designed checkpointed Microsoft Graph/SharePoint intake with hashes, eTags, atomic landing, run locks, parser routing, canonical bundles, manifests, provenance, and run receipts - the same explicit-state and bounded-side-effect principles used in reliable Go, Python, Java, and Rust-ramp services.
- Implemented ACCEPT, QUARANTINE, and SYSTEM-failure states with duplicate holds, ambiguity reasons, multi-parser rechecks, and human review, preventing uncertain extraction results from silently reaching downstream AI and estimating workflows.
- Normalized document-derived fields, including yen-denominated financial values where required, while preserving source identity and reviewer context for model-ready datasets and cross-border project analysis.
- Translated ambiguous Building & Estimating, Finance, Legal, Cyber, and AI-platform requirements into bounded vertical slices and reusable controls aligned with AISP's drawing-to-model-to-operational-workflow architecture.
- Built guarded API automation and reviewer-ready evidence with dry-run/apply discipline, default-deny mutations, and manual fallback, enabling enterprise experimentation without surrendering owner authority or production safety.

Senior Data Engineer & Automation Specialist | 4C Strategies North America | Orlando, FL | 05/2025 - 10/2025

- Built a Java 17/Spring Boot Kafka-to-PostgreSQL backend service with idempotent consumers, replay and duplicate protection, DTO/schema validation, JPA/Hibernate persistence, paginated REST APIs, and service boundaries directly legible to Go/Golang backend teams.
- Modeled a queryable operational read layer that consolidated distributed message data and became a reusable baseline for new pipeline implementations under regulated, air-gapped constraints.
- Implemented JUnit 5, Mockito, Spring Cloud Stream test binder, Maven Surefire, Docker, and GitLab CI/CD gates to catch contract and serialization regressions before QA.
- Instrumented consumer health, flow latency, throughput, errors, and data-quality signals with Prometheus and Grafana, using Loki and correlation IDs to trace failures across pipeline stages.
- Reduced distributed debugging cycles by approximately 30% and documented runbooks, ADRs, OpenAPI notes, and security profiles that enabled repeatable operator and developer handoffs.

Cloud Solutions Architect, AI/Data Platform | Microsoft Engagement via Accenture | Atlanta, GA | 05/2024 - 12/2024

- Partnered with enterprise stakeholders to translate Copilot and knowledge-access needs into a Python retrieval prototype using LangChain, semantic search, embeddings, and governed source integration.
- Designed Azure Data Factory orchestration with schema validation, automated error handling, lineage, and cost monitoring, creating a controlled path from customer data to ML and BI consumers.
- Built Power BI semantic models and decision dashboards for adoption, latency, and data-quality signals across customer engagements, helping leadership prioritize rollout and operational improvements.
- Guided clients through Entra ID, DLP, PII-aware ETL, infrastructure optimization, workshops, and migration planning, communicating technical tradeoffs to nontechnical decision-makers.

Customer Success Manager | Kearney | Atlanta, GA | 10/2021 - 12/2022

- Built customer-success playbooks for AI/ML startup engagements, standardizing discovery, adoption blockers, escalation paths, and delivery handoffs to improve consistency and retention predictability.
- Developed Salesforce, Voice-of-Customer, Excel, and Power BI reporting that organized account health, stakeholder feedback, and reusable proof points for retention and new-business teams.

Senior Data Analyst / Data Engineer (W2 Contract) | Flexport | Atlanta, GA | 10/2020 - 04/2021

- Analyzed supply-chain and routing patterns with Python, SQL, and statistical methods, surfacing operational bottlenecks and recommendations that improved SLA visibility and reduced freight delays.
- Built Power BI and Excel dashboards covering 100+ concurrent shipments, giving dispatch and logistics leaders a shared view of exceptions, capacity, and service risk.
- Identified capacity and demand-pattern opportunities that supported \$50K+ in quarterly savings through analytics-backed process recommendations.

Senior Operations Analyst | Hapag-Lloyd | Atlanta, GA | 02/2019 - 11/2019

- Managed international logistics accounts and escalations, coordinating customer, shipment, and exception data to improve issue visibility, service recovery, and cross-functional handoffs.
- Reconciled Salesforce/CRM and operational records to strengthen follow-up discipline, account reporting accuracy, and traceability across complex customer workflows.

SELECTED TECHNICAL SYSTEMS

Construction-PDF Ingestion and Validation Control Plane | Universal Creative / NBCUniversal

- Built a deterministic Python backend with checkpointed Microsoft Graph/SharePoint intake, eTags and content hashes, atomic landing, run locks, multi-parser routing, canonical bundles, provenance, and explicit ACCEPT/QUARANTINE/SYSTEM states - directly aligned with AISP's drawing-ingestion and model-input reliability layer.

Event-Driven Operational Data Service | 4C Strategies North America

- Engineered a Java 17/Spring Boot Kafka-to-PostgreSQL service with idempotent consumers, replay and duplicate protection, typed DTO/schema contracts, JPA/Hibernate persistence, paginated REST APIs, deterministic tests, GitLab CI/CD gates, and Prometheus/Grafana/Loki telemetry - directly transferable to Go backend service work and Rust ramp contexts without overstating Rust-first depth.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals - 07/2023 | Azure AI Fundamentals - 10/2025 | Azure Data Fundamentals - 11/2025
- Azure Databricks Platform Architect - Databricks - 11/2025 to 11/2026 | Databricks Fundamentals - 09/2025 to 10/2026
- Confluent Data Streaming Engineer - Confluent - 09/2025 to 09/2027 | Multicloud Network Associate - Aviatrix - 02/2024 to 03/2027
- Fortinet Certified Fundamentals Cybersecurity - 09/2025 to 09/2027 | Google Project Management Professional Certificate - 09/2025