

OMOGHENE (JHENE) EKUWEM

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EDUCATION

M.S. in Applied Data Science

University of Southern California

Aug 2025 – Dec 2026 (Expected)

Los Angeles, CA

B.S. in Computer Science and Business Administration

University of Southern California

Aug 2021 – May 2025

Los Angeles, CA

SKILLS

Languages: Python, SQL, JavaScript

Frameworks & Libraries: PySpark, Pandas, Boto3, D3.js, Matplotlib, dbt

Platforms & Infrastructure: Snowflake, AWS (CloudWatch, Secrets Manager), GCP (GKE, GCS), Terraform, PostgreSQL, Airflow

EXPERIENCE

Data Platform Engineer Intern

Okta

May 2026 – Present

San Francisco, CA

- Codified 82 Snowflake warehouses under Terraform across 3 environments, cutting warehouse creation time from 8 hours to minutes, removing 24 stale definitions, exposing 3 copy/paste bugs in legacy SQL, and enforcing an IaC-only boundary for future contributors via pre-commit hooks.
- Established first-ever rotation-compliance observability for D&I Secrets Manager secrets, visibly alerting contributors to secrets past the 365-day deadline by authoring a reusable Terraform module with two least privilege Lambdas publishing count, age, and access-frequency metrics to CloudWatch.
- Automated RSA key rotation for the D&I Snowflake service-user fleet, moving rotation compliance from 0% to 100% by shipping a reusable Terraform + containerized-Lambda module using a two-slot write pattern, 90 day EventBridge trigger cadence, and GitHub Actions pipeline to build, push, and deploy.
- Patched the reusable `sfc_service_user` Terraform module with lifecycle `ignore_changes` blocks and a `secret_name_override` input, enabling 100% of future automated RSA rotations across 6 D&I Snowflake service users while eliminating all terraform-plan drift for downstream engineers.

Data Engineer Intern

SprintRay

Dec 2025 – Mar 2026

Glendale, CA

- Executed 3 **PostgreSQL** table retrofits using `boto3` and `gzip` to extract log data from DynamoDB and IoT Core, `pandas` to transform/clean, and `psycopg2` to batch load from unlogged Postgres staging tables, enabling efficient and at scale revision/insertion of telemetry data.
- Consolidated 2 siloed Postgres databases into a unified analytics platform by architecting an end-to-end ELT pipeline using Airbyte for ingestion, dbt Core + DuckDB for transformations, Dagster for orchestration, and Apache Superset for dashboards, processing 20k daily records for Product/Software teams.
- Delivered Jupyter-based analytics on several million rows of IoT telemetry + resin + RayWare Cloud data using **Python** (Pandas, Matplotlib), partnering with Product leadership to track product KPIs (global resin consumption, print completion rate) and deliver focused resin insights.

IT/Web & Systems Developer Intern

University of Southern California — Cultural Relations & University Events (CRUE)

Sep 2025 – May 2026

Los Angeles, CA

- Collaborated with university software developers to refactor the Event Registration System (ERS) from synchronous to asynchronous **JavaScript** and moved key endpoints from client-side to server-side pagination to reduce page load times at campus scale (**70,000+** users).
- Implemented a symmetric cryptographic MVC architecture using PHP with environment-level AES-256 encryption to manage sensitive Salesforce API credentials, ensuring passwords and security tokens remain encrypted at rest while decrypting in memory to facilitate automated event data syncing.

PROFESSIONAL INVOLVEMENT

Director of Software USC Flavors

- Led a 3-person development team in building a web platform (Next.js, TypeScript) for the over 200 member food club; managed sprint planning, designed and delegated features, and shipped uscfavors.com in 15 weeks.

PROJECTS

LA Street Parking AI Data Lakehouse

[source](#)

- Provisioned a scalable GKE Autopilot cluster and Iceberg lakehouse via Terraform, orchestrating containerized PySpark CronJobs to ingest LA parking data, then surfaced it through an Agentic RAG interface using FastAPI, Google Gemini, React, and MapLibre for conversational geospatial querying.

Santa Clara County Data Center Impact Visualization

[demo](#)

- Designed interactive map features including dynamic data center placement with real-time Python-backed ambient heat reachability recalculation, and a custom ray-casting algorithm to isolate precise building sub-geometries on hover for a synchronized property value timeseries linked view.