

# James Olaitan

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## EDUCATION

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### Minerva University

San Francisco, CA

*Bachelor of Science in Computer Science, GPA: 3.6/4.0*

*Sep 2023 - May 2027*

**Coursework:** Data Structures & Algorithms, Probability & Statistics, Statistical Modeling, Linear Algebra

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Rust, Go, JavaScript, SQL, R, Bash

**Frameworks:** Flask, React, FastAPI, PyTorch, scikit-learn, SQLAlchemy, NumPy, Pandas, Matplotlib, Streamlit

**Tools:** Docker, Kubernetes, Git, CMake, Terraform, GitHub Actions, Grafana, Prometheus, GoogleTest

**Cloud & Databases:** AWS, Azure, Linux, PostgreSQL, SQLite, DuckDB

**Certifications:** Azure AZ-900, IBM Data Science, Options 101 (Akuna Capital), AWS Cloud Practitioner

## EXPERIENCE

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### Google Summer of Code (7.4% acceptance)

May 2026 - Aug 2026

*Open Source Contributor, Konflux (Red Hat) | Tekton, Go, buildah, Bash*

*Remote*

- Authored a reproducible-build architecture (ADR-0069, under Red Hat review) to prevent tampered builds from shipping: opt-in buildah flag wiring, a verification pipeline, and a secondary-artifact collision fix.
- Implementing the design on a kind cluster: propagating buildah flags through all docker-build-\* Tekton variants, a 5+ Containerfile benchmark suite, and a digest-comparison pipeline across two builds.

### Meta & Major League Hacking

Jun 2026 - Sep 2026

*Production Engineering Fellow (SRE) | Linux, Docker, Flask, Prometheus, Grafana, CI/CD*

*Remote*

- Completing a 12-week Linux Foundation LFS201-based SRE curriculum covering Linux internals and production system administration, under direct mentorship from Meta Production Engineers.
- Containerizing and deploying a Python Flask web service with Docker on a Linux VPS, automating build, test, and deploy through a GitHub Actions CI/CD pipeline for reproducible production deployments.
- Instrumenting the service with Prometheus and Grafana for observability: metrics, dashboards, and alerting; diagnosing live failures with grep, ps, and journald to trace issues to root cause in a Meta-mentored pod.

### UL Solutions

Apr 2024 - Aug 2024; May 2025 - Jul 2025

*Engineering Intern | Linux, Bash, RF/EMC Testing*

*Fremont, CA*

- Debugged firmware flashing pipelines across 30+ IoT variants in 3 FCC/ETSI-certified product lines, tracing calibration drift and script failures in Linux-based RF/EMC test environments to increase throughput by 20%.
- Flagged an emissions violation that led a client to scrap a planned product feature (preventing a federal compliance issue) while processing 500+ RF/EMC test results into CSV/DAT formats.

## PROJECTS

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**AccessGraph** | *Go, AWS IAM, OPA/Rego, Terraform, Docker, GitHub Actions, Python*

- Detected multi-hop AWS IAM privilege escalation paths that per-policy static analyzers miss, by modeling IAM as a directed graph with 9 edge types and running BFS over offline snapshots without AWS calls.
- Discovered that security-tool benchmarks conflate two detection models, producing misleading accuracy numbers; built a controlled recall benchmark across 3 tools and 15 scenarios with Wilson-score CIs, reproducible from a fresh clone without AWS credentials.
- Prevented AWS customer-identifier leaks (account IDs, ARNs) from shipping by adding a commit-time audit script that also enforces layer-dependency rules across the 205-test suite.

**Distributed Systems Profiler** | *Python, C++, FastAPI, Microservices, Prometheus, Grafana, Docker, GitHub Actions*

- Sustained 1,000 RPS at sub-300ms P95 latency across a 3-service FastAPI testbed and 5-container Docker stack, using a custom C++17 rolling-percentile engine (two-heap/lazy-eviction) over streaming Prometheus samples; reproducible from k6 load scripts.
- Configured service-to-service fan-out (async httpx, 2 retries, 1-second timeouts) for graceful degradation, with shared middleware exporting 3 Prometheus metric types across 13 endpoints.

**Market Anomaly Detection** | *Python, PyTorch, DuckDB, Streamlit, Docker, GitHub Actions*

- Detected correlation breakdowns at a 0.04% base rate in S&P 500 sector data with 75% precision and 0.9998 ROC-AUC, by training an 18K-parameter PyTorch LSTM on 14 years of history.
- Prevented lookahead bias from silently inflating metrics by enforcing chronological train/val/test splits across a DuckDB pipeline of 5 normalized tables and 8 rolling/z-score features, with 25 tests covering schema and feature integrity.

## ORGANIZATIONS

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**ColorStack, Brilliant Black Minds**