

Ifedapo Princewill Olaiya

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EXPERIENCE

Senior Backend Engineer | Aqua Security · Tel Aviv, Israel Feb 2025 – Present

- Played a key role in incident response and triage during a security breach; contributed to forensic investigation, root cause analysis, and identification of the attack vector, leading to strengthened security posture and preventive measures.
- Cut cloud-scanner end-to-end scan time by 50% by refactoring the concurrent pipeline to a bounded worker-pool with back-pressured channels; validated with pprof and benchstat and published before/after benchmarks.
- Raised cargo scan success rate to 90% by hardening the vulnerability scanner against malformed registry responses and flaky upstreams.
- Reduced egress bandwidth on scanner → backend channels by introducing zstd/gzip request compression with content-type negotiation.
- Expanded observability by instrumenting the scanner with Datadog metrics, traces, and SLO-aligned alerts — cutting mean time to detection on scanner regressions.
- Managed and maintained Jenkins CI/CD pipelines, ensuring reliable, efficient builds and deployments for the cloud scanner team.
- Built an entropy-based secrets detection engine in Go that reduced false positives by 40% across cloud artifact scans while preserving recall on 25+ credential formats.

Tech Lead | E-Global Consulting Group LLC · Florida, USA (Remote) Jan 2023 – Feb 2025

- Led a team of 8 engineers building a virtual-lane driver management platform; designed a Go microservice architecture on AWS (ECS, MSK, RDS) that served 15k concurrent drivers with p99 dispatch latency < 200 ms.
- Architected CI/CD pipelines with Docker and GitHub Actions, cutting manual ops by 50% and accelerating release cadence by 30%.
- Shipped real-time call signalling and GPS tracking over WebSockets and Server-Sent Events, sustaining thousands of concurrent long-lived connections per node without connection churn.
- Implemented geo-fencing in Go using ray-casting, evaluating 5k points/sec per worker with lock-free hot paths.
- Developed Python data processing pipelines using GraphQL to extract departmental data and transform it into analysis-ready spreadsheets, enabling faster business insights and decision making.
- Owned code review culture and onboarding; mentored 4 mid-level engineers through senior-level promotion.

Tech Lead | BitGifty · Lagos, Nigeria Sep 2021 – Nov 2023

- Architected a cryptocurrency bill payment platform enabling users to pay bills directly with crypto, eliminating the need for fiat conversion and grew users from 0 to 457k.
- Horizontally scaled Django and FastAPI APIs to reliably support rapidly increasing users and 10k daily transactions while maintaining high availability and performance.
- Automated refunds by building Celery background workers that detect failed transactions and trigger recovery flows — reducing refund turnaround time by 70%.
- Integrated the Go codebase with Ethereum-based smart contracts to support on-chain payment execution.
- Expanded multi-chain support by integrating Stellar and additional blockchains to deliver user-requested functionalities.
- Implemented a payment intent system to track each transaction from creation through to completion, improving auditability and debugging.
- Increased system reliability by adding retry logic with incremental backoffs across all third-party integrations, reducing cascading failures.

Lead Backend Developer | Marketier Ng · Remote

Aug 2019 – Jul 2021

- Managed 5 engineers building Algorand and Ripple wallet-management systems; owned Python SDK integration with the XRP Ledger.
- Designed an order-matching service that paired users with best-available swap offers across multiple asset pairs.
- Introduced Docker and CI/CD tooling, cutting deployment time by 50% and standardizing the release process across the team.

Backend Developer | OxEngine Labs · Remote

Mar 2016 – Jul 2019

- Cut query latency by 50% on high-traffic endpoints through index tuning, join rewrites, and guided query-plan optimisation.
- Built a Django + Elasticsearch indexing engine powering full-text catalog search across a large product inventory.
- Tuned Nginx load balancing to smooth multi-instance traffic distribution during high-volume campaign spikes.

SKILLS

Languages: Go, Python, JavaScript, SQL, PHP

Backend: gRPC/Protobuf, WebSockets, Server-Sent Events, REST, OAuth2, JWT

Frontend: React, Vue

Messaging: Kafka, NATS JetStream, Redis Streams, RabbitMQ, Celery

Data: PostgreSQL, TimescaleDB, Redis, Elasticsearch, Cassandra

Cloud: Docker, Kubernetes, AWS (ECS, MSK, RDS, S3, CloudFront), GitHub Actions CI/CD, Nginx

Observability: OpenTelemetry, Jaeger, Prometheus, Grafana, Datadog, pprof, benchstat, flame graphs

EDUCATION

B.Eng. Electrical & Electronics Engineering

Nov 2013 – Dec 2019

Federal University of Technology, Owerri