

Richard Adebowale Oyelowo

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SUMMARY

Backend engineer building Python systems with FastAPI, PostgreSQL, async services, authentication, RBAC, and tenant-isolated architectures. Strong focus on correctness, testing, CI/CD, production readiness, and backend services that turn product requirements into reliable system behavior.

SKILLS

Backend & Architecture	Python (3.11+), FastAPI, Flask, Async Systems, API Design, Multi-Tenant Architecture, RBAC
Data & Storage	PostgreSQL, SQLAlchemy, asyncpg, Alembic, Redis, Relational Data Modeling
Security & Auth	JWT, OAuth2, Token Lifecycle Management, bcrypt, HTTPS / TLS
Infrastructure	Docker, GitHub Actions, CI/CD Pipelines, Railway, Render
Testing & Reliability	pytest, pytest-asyncio, Integration Testing, HTTPX, Coverage.py, TDD
Languages & Tools	Python, SQL, JavaScript, C, Linux, Git
Applied AI	LLM APIs, structured outputs, tool calling, eval tests, prompt/version regression checks

EXPERIENCE

Backend Systems Engineer · Independent 2025 – Present

- Designed, built, and deployed **backend systems** serving real users across production environments with custom domains.
- Built **async FastAPI APIs** using **PostgreSQL**, **SQLAlchemy**, and **Redis** with scalable service-layer architecture.
- Designed **multi-tenant RBAC systems** enforcing strict tenant data isolation, secure access controls, and ORM-level query scoping.
- Built **CI/CD pipelines** using **Docker** and **GitHub Actions**, blocking deployments until automated test suites passed.
- Developed reusable **authentication infrastructure** including JWT lifecycle management, OAuth2 flows, and role-based access patterns.

Backend Developer · Independent 2025

- Designed, built, and deployed **full-stack production web applications** serving real users across custom domains.
- Deployed **DevBrain**, a developer knowledge platform with authentication, rich text editing, search, and tagging.
- Deployed **Business Dashboard**, a multi-user platform with customer and order management plus user data isolation.
- Managed **PostgreSQL** schema evolution using **Alembic migrations** across live applications.
- Built a job scraping and data processing pipeline using **Playwright**, **BeautifulSoup**, **Pandas**, and CLI workflows.

PROJECTS

gatevault · Open Source Authentication Framework · PyPI pypi.org/project/richard-gatevault | github.com/RichardOyelowo/gatevault

- Framework-agnostic** auth library with **JWT lifecycle**, **OAuth2 flows**, and **RBAC enforcement**, pure Python with no framework dependencies, reducing boilerplate by ~60–70%.
- Delivered with **90%+ test coverage** and full **CI/CD automation** via GitHub Actions covering every PyPI release.

Snip · URL Shortening Service · Live snip-ly.xyz | github.com/RichardOyelowo/Snip

- High-throughput shortener using **atomic Base62 encoding** for collision-free codes, tested with **100K+** entries under concurrency with zero production failures since launch.

Clustra · Multi-Tenant Project Management API github.com/RichardOyelowo/clustra

- Hierarchical system (Org → Team → Project → Task) with **5-level RBAC**, tenant isolation via ORM query scoping, and **gatevault** handling token injection via dependency injection.
- Async service layers at **90%+ test coverage** with **pytest-asyncio**; CI blocks every release until the suite clears.

Multi-Tenant SaaS Dashboard · Live businessdashboard.shop | github.com/RichardOyelowo/Business-Dashboard

- Zero cross-tenant data leakage via ORM query scoping to authenticated tenant ID; auth, dashboard, and admin fully decoupled via **Blueprint factory**.

EDUCATION & CERTIFICATIONS

Harvard University (via edX) · CS50x & CS50P · Computer Science & Python Engineering · 2025

Open Source Author · Published Authentication Package on PyPI · Portfolio · richardoyelowo.github.io