

George Acquah

Backend Software Engineer

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🐙 Github 🔗 George Acquah

PROFESSIONAL SUMMARY

Backend Software Engineer with a First Class Honours in Computer Science & Engineering. Specialising in production-grade, event-driven backend systems using TypeScript/NestJS and ASP.NET Core. Deep experience in Domain-Driven Design (DDD), multitenant SaaS architecture, microservices, and REST API development - directly aligned with ACS Ghana's focus on enterprise custom software, ERP integrations. Delivered end-to-end SaaS products from architecture through deployment, with integrated observability, async job pipelines, and role-based access control.

PROFESSIONAL EXPERIENCE

- Backend Developer ASP.NET Core (National Service), Innorik** 11/2024 – 08/2025
Accra, Ghana
- Engineered and optimized RESTful APIs with ASP.NET Core, supporting high-traffic enterprise applications in active production environments.
 - Applied SOLID principles and Clean Architecture patterns to improve service-layer modularity, reducing coupling and enabling faster feature iteration.
 - Participated across the full Agile/Scrum cycle - sprint planning, daily stand-ups, code reviews - consistently delivering on schedule.
 - Co-developed the Innorik company website using Next.js and Sanity CMS, enabling nontechnical staff to manage content autonomously.

EDUCATION

BSc Computer Science & Engineering, University of Mines & Technology, Ghana 11/2024
Ghana
First Class Honours 80.04% (≈ 3.6 / 4.0 GPA) Relevant Coursework: Distributed Systems, Data Structures & Algorithms, Software Engineering, Databases, Artificial Intelligence

TECHNICAL SKILLS

Languages

TypeScript, JavaScript (Node.js), C# (.NET), SQL

Architecture

DDD, Event-Driven (EDA), CQRS, Multi-Tenancy, Microservices, CleanArchitecture, SOLID

Frontend

Next.js (14/15/16), React.js, Tailwind CSS, React Native (Expo)

Observability

Prometheus, Grafana, Loki, Structured Logging

Backend

NestJS, Express.js, ASP.NET Core, REST APIs

Databases

PostgreSQL, Microsoft SQL Server, MongoDB, Redis, Supabase

DevOps

Docker, GitHub Actions (CI/CD), Turborepo, BullMQ, Prisma ORM, Git

Agile

Jira (Epics, Sprints, Story Points), Scrum, GitHub Projects

LANGUAGES

English

Fluent (C1)

Fante

Native

Twi

Native

KEY PROJECTS

FeePilot, *School Fee Management SaaS Platform (Active)*

- Designed a Turborepo monorepo spanning 4 deployable apps and 20+ shared packages, enabling clean separation of concerns across the platform.
- Built a typed BullMQ/Redis job queue with domain event publishing, named queue routing, and idempotent handlers - decoupling side effects (email, SMS, audit logs) from domain mutations for high throughput.
- Implemented a 6-role RBAC hierarchy (Super Admin → Parent) with JWT authentication, refresh token rotation, and guard-enforced controller access.
- Integrated Prometheus, Grafana, and Loki for real-time monitoring of request latency, system metrics, and centralized logging.
- Planned and tracked 40+ Jira stories across 6 epics (Auth, Tenancy, Academics, Fees, Payments, Notifications) through architecture to deployment.

Pee N Kay, *Backend E-Commerce Platform API*

- Implemented Supabase webhook-driven user synchronisation, propagating auth events to the application database in real time without polling.
- Enforced end-to-end type safety via TypeScript, Zod, and OpenAPI (Swagger) for contract-first API development.
- Integrated observability stack (Prometheus, Grafana, Loki) for centralised logging and performance monitoring.

SmartInventory, *Inventory Management API*

- Decomposed a monolithic Clean Architecture solution into three independently deployable microservices, improving scalability and fault isolation.
- Extracted reusable SDK packages for shared infrastructure, reducing duplication across services.