

EMMANUEL GYAN-AMOAH

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SUMMARY

Software Engineer with 4+ years of experience building and supporting cloud-native full-stack applications in a large-scale telecommunications environment. Over eight years at AT&T across software and network engineering. Master's in Informatics.

WORK EXPERIENCE

AT&T, Brno, Czech Republic

June 2022 - Present

Software Engineer

- Developed and supported six cloud-native applications and APIs powering workflows for RAN Mobility teams, the FirstNet Authority, first responders, internal AT&T development teams, and AT&T customer-facing services.
- Designed and maintained NestJS microservices and REST APIs consumed by internal development teams and integrated with PostgreSQL, MongoDB, Kafka, and downstream AT&T services.
- Delivered React and TypeScript features for operational dashboards and internal applications, including role-based navigation and access-controlled user workflows.
- Designed and maintained GitHub Actions pipelines that automatically build, test, and deploy code from default branches to their corresponding environments, including container-image and artifact promotion between environments.
- Eliminated developer-local manual deployments through CI/CD automation, shortening release cycles while reducing deployment errors and operational support effort.
- Remediated approximately 8-15 dependency and Docker-image vulnerabilities each month through package upgrades, base-image updates, automated testing, and deployment validation.
- Investigated and resolved complex integration, deployment, and application-security problems across distributed services, reducing recurring incidents, errors, and support workload.
- Collaborated within a nine-person cross-functional project team that includes five software developers, while coordinating technical integrations with internal API consumers and downstream engineering teams.

AT&T, Brno, Czech Republic

February 2018 - May 2022

Technical Specialist, Network Engineering

- Supported LTE and 5G infrastructure operations and deployment activities across live production telecommunications networks.
- Investigated service outages, network faults and deployment problems, coordinating with field technicians and engineering teams to isolate issues and restore affected services.
- Supported incident escalation, operational reporting, deployment validation, and communication between network operations and field teams.

SELECTED PROJECT

Ntotoho - Vendor-Driven Price Comparison Platform Ghana

2024 - Present

Creator and Software Engineer

- Architected and built a production price-comparison platform with separate public, vendor, and administrative applications for the Ghanaian market using Next.js, FastAPI, PostgreSQL and Redis.

- Developed services for product catalog management, vendor onboarding, metadata ingestion, price management, and offer moderation.
- Containerized and deployed the platform using Docker, Nginx, Cloudflare and GitHub Actions, with automated CI/CD and monitoring.
- Established automated testing using pytest, Vitest and Playwright while owning the platform's architecture, deployment and ongoing maintenance.

TECHNICAL SKILLS

Languages: TypeScript, Python

Backend: NestJS, FastAPI

Frontend: React, Next.js, Shadcn, Tailwind

Cloud & Platform: Docker, Kubernetes, Azure, GitHub Actions, Cloudflare, Nginx

Data: PostgreSQL, MongoDB, Kafka, Redis

Testing: Jest, pytest, Vitest, Playwright

EDUCATION

M.S. Informatics, Mendel University in Brno, Czech Republic

2023 - 2025

B.S. Economics, Mendel University in Brno, Czech Republic

2015 - 2019

LANGUAGES

English, Fante, Twi