

NANA KWASI BOADI

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PROFILE

Back-end and full-stack software engineer who ships production web and mobile apps end-to-end using TypeScript/Node.js, Next.js, React Native, and PostgreSQL. Open-source contributor (Fastify CLI pull request, published Dart package) interested in applying LLMs and the Model Context Protocol to reliable, well-tested product features.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Dart, Python, SQL
Frameworks & Libraries	Node.js, Express, Next.js, Nest.js, Fastify, Flask, React Native, Flutter, Prisma, Tailwind CSS, shadcn/ui, Auth.js
Security	JWT, role-based access control, multi-tenant authorization, secure API design
DevOps & Testing	Git, GitHub Actions, Docker, Vercel, AWS, Google Cloud, Vitest, Playwright, pytest

WORK EXPERIENCE

Munchies – Software Engineer (Full-time)	Berekuso, Ghana · Sep 2023 – Aug 2025
- Built a management system with a team of three (Next.js, Express) that centralised customers, menu and orders in one platform, removing the need to switch between separate tools. - Launched a Flutter ordering app that moved 45% of orders off the in-person queue, cutting average wait at peak from 10 to 3 minutes. - Set up continuous delivery with GitHub Actions, standardising build-and-deploy across all services. - Safeguarded code quality with Postman API tests and Playwright end-to-end coverage.	
Krafty – Frontend Developer (Contract, remote)	Massachusetts, USA · May 2025 – Jul 2025
- Built the React Native front end of a mobile marketplace app in a five-person team, delivering the UI used in the pitch that secured the company's first investment. - Focused the two-month engagement on the screens and flows the investor demo needed, shipping a working prototype on time. - Collaborated across the team using Agile workflows and Git/GitHub.	

PROJECTS

postman-nds – postman-nds.vercel.app

- Built a distributed notification dispatch service that accepts requests over a REST API, durably queues them in Postgres, and distributes work across a configurable pool of workers using row-level locking (SELECT ... FOR UPDATE SKIP LOCKED) so each job is claimed and sent by exactly one worker under concurrent load.
- Implemented at-least-once delivery with idempotency keys to prevent duplicate sends on retry, exponential backoff for transient failures, and a dead-letter queue for messages that exhaust their retries.
- Added Redis-backed token-bucket rate limiting to throttle throughput and protect downstream providers.
- Modelled the data layer with PostgreSQL and Prisma.

Sua LMS – sualms.com

- Shipped a per-tenant AI assistant (Claude Haiku) that answers natural-language queries and creates tasks, with row-level scoping that prevents one student from reading another's data; multi-tenant isolation enforced at the query layer.
- Adopted by university students at UHAS and KNUST in Ghana to consolidate timetables, tasks and study material in one place.
- Set up CI/CD with GitHub Actions and Vercel to automate testing and catch errors before they reach production.
- Used Vercel Cron Jobs with Resend to send email reminders for tasks and assignment deadlines.
- Cut deployment time to approximately 2 minutes and caught regressions pre-merge via a GitHub Actions pipeline running Vitest + Playwright on every PR.

OPEN-SOURCE CONTRIBUTIONS

modular_cart_core – pub.dev/packages/modular_cart_core

- Developed and published a headless, deterministic, immutable cart engine for configurable Dart e-commerce products, with merge-safe cart lines, per-option quantities and robust normalisation rules. Powers the cart in the Munchies ordering app, serving 200+ users in production.

Fastify CLI – PR #883 · github.com/fastify/fastify-cli/pull/883

- Diagnosed and fixed stale-file serving in the TypeScript template of fastify-cli, the official CLI for Fastify. Old compiled output was being served after source changes; added a clean step so every build starts from a known state.

EDUCATION

Manchester Metropolitan University – MSc Cybersecurity

Manchester, UK · Sep 2025 – Sep 2026

Ashesi University – BSc Computer Science

Berekuso, Ghana · Sep 2019 – Aug 2024