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Summary

Backend engineer focused on scalable infrastructure, payment systems, and distributed architecture. Authored open-source webhook gateways, concurrent rate limiters in Go, and production backend systems spanning cybersecurity, logistics, and AI-powered developer tooling.

Professional Experience

ThinkPath Innovation Limited (FoodToGo)

February 2026 – Present

Backend Developer

- Developed a real-time rider dashboard backend in **NestJS**, processing live geospatial data to track **500+ active riders** and aggregate operational metrics (active time, acceptance rate, earnings) for dispatchers
- Integrated secure **RBAC** authentication with permission-scoped **REST API** access across 4 administrative roles, securing **20+ critical endpoints**
- Established CI/CD quality gates (linting, type checking, automated tests) in **GitHub Actions**, reducing integration defects by **40%** across a 6-engineer backend team

Chari Nexus (Cybersecurity SaaS · NDA)

February 2025 – Present

Full-Stack Developer (Backend Focus)

- Stabilized a legacy codebase of **25+ modules** by introducing strict **TypeScript** typing and modular boundaries, reducing production bugs by **30%** and enabling the team to resume feature delivery
- Spearheaded a vulnerability management module tracking **2,000+ internal assets** with automated discovery, **SAST** scanning via **Semgrep CLI**, and **DAST** scanning within a **CI/CD** pipeline
- Designed end-to-end remediation tracking across 4 compliance modules with structured audit logging for FATF 40 and ISO standards, emitting **10,000+ structured logs** monthly to a centralized incident response module
- Decoupled a synchronous PDF report engine into a **worker queue** architecture, cutting generation time from **10–15s to sub-second** and supporting **100+ concurrent requests**
- Enforced secure multi-organisation tenancy with **RBAC**, input validation via **Zod**, and **JWT** authentication

National Information Technology Development Agency (NITDA)

August 2024 – November 2024

Data Analysis Intern

- Deployed a **RAG pipeline** using local LLMs via **Ollama** for document intelligence; trained classification models with **PyTorch** and **TensorFlow** processing **5,000+ records** and achieving **~92% accuracy**

Projects

HookLens | Open-Source Webhook Infrastructure | [GitHub](#) | [Live](#) | [Docs](#)

TypeScript | Node.js | PostgreSQL

- Architected a decoupled ingestion→queue→delivery pipeline for **Paystack**, **Flutterwave**, and **Monnify** webhooks, saving **20+ hours** of integration time per new client
- Validated **1,000+ webhook events** at **500 RPS** with **BullMQ**-powered retries, **idempotent** processing, and simulated network failure recovery
- Created an AI diagnostics engine analyzing failed deliveries and producing plain-language root-cause explanations from HTTP responses and metadata

Trade Tracker | AI-Powered Trading Journal | [GitHub](#) | [Live](#)

Next.js | PostgreSQL | LLMs

- Architected an async AI analysis pipeline using **Groq API** and **Llama 3.3 70B**, generating structured risk and execution insights per trade with semantic search over historical entries
- Diagnosed and resolved a critical **race condition** causing **connection pool exhaustion**, ensuring **~200ms latency** for **100+ concurrent dashboard queries**

PayPipeline | Cross-Border Payment Simulator | [GitHub](#) | [Live](#)

TypeScript | Express 5

- Programmed a payment simulation backend in **Express 5** modeling 5 pipeline stages (validation, **AML compliance**, FX locking, ledger write, settlement) supporting **1,000+ simulated cross-border transactions** per minute
- Designed a **state machine** architecture supporting fiat-to-fiat, crypto, and crypto-to-fiat transaction flows

Distributed Rate Limiter | [GitHub](#)

Go | Redis

- Constructed a distributed rate limiter in **Go** using a **sliding window algorithm** backed by **Redis**, capable of handling **10,000+ RPS** with **~5ms latency overhead**
- Leveraged **goroutines** for concurrent cleanup, **RWMutex** for multi-user state, and an **atomic Lua script** to prevent race conditions under load

Technical Skills

Languages: JavaScript, TypeScript, Go, Python, SQL, Bash
Backend & Infrastructure: Node.js, Express, NestJS, REST APIs, BullMQ, Redis, Microservices, Event-driven Architecture, JWT, OAuth, Webhooks
Databases: PostgreSQL, MongoDB, Prisma ORM
DevOps & Observability: Git, GitHub Actions (CI/CD), Docker, Linux, Sentry, Vercel
Machine Learning: PyTorch, TensorFlow, Pandas, NumPy, RAG Pipelines, LLM Orchestration, Embeddings

Education

Al-Hikmah University
B.Sc. in Software Engineering

Expected Graduation: July 2027