Aisha Bello Senior Back-End Engineer

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PROFILE SUMMARY

- **Senior Back-End Engineer** with **7 years** on **SaaS developer platforms**, now building the **public API, webhooks and integration security** at **Notion**, after 3 years on the **Analytics and Insights APIs** at Algolia.
- Works in languages (**TypeScript**, **Go**, SQL), runtimes (**Node.js**), data stores (sharded **PostgreSQL**, Citus, **Redis**), messaging (**Kafka**), infrastructure (**AWS**, Kubernetes) and observability (**OpenTelemetry**, Datadog).
- Knows **API versioning**, **webhook delivery** and **multi-tenant rate limiting** well, writes a **design doc** before each endpoint, and keeps old API versions running so **no integration breaks** when the data model changes.
- Works with **product managers**, **developer relations**, the **security team** and **partner engineers** at companies building on the Notion API, and carries the **Developer Platform pager** one week in six.
- Wrote the team's **API design guide** (naming, pagination, errors, deprecation), reviews every **public endpoint** before launch, and has coached **2 engineers** through their first on-call weeks and design reviews.

TECHNICAL SKILLS

Languages:	TypeScript, Go, SQL, Python
Back-End Frameworks:	Node.js, Express, Go (net/http, chi)
API Standards & Protocols:	REST, OpenAPI, OAuth 2.0, webhooks (HMAC-SHA256 signing), gRPC, Protocol Buffers
Databases & Data Stores:	PostgreSQL (sharded), Citus, Redis, Elasticsearch, Amazon S3
Messaging & Streaming:	Apache Kafka, Debezium (CDC), Amazon SQS, dead-letter queues
Cloud & Infrastructure:	AWS (EKS, RDS, S3), Google Cloud (GKE), Kubernetes, Docker, Terraform
Testing & Observability:	Jest, Go testing, Testcontainers, k6, OpenTelemetry, Datadog

EDUCATION

Howard University — **B.S. in Computer Science** — Washington, DC · Aug 2015 to May 2019

WORK EXPERIENCE

Notion — **Software Engineer, Developer Platform** — San Francisco, CA · May 2022 to Present

- Led the backend for API version 2025-09-03, adding **/v1/data_sources** endpoints for multi-source databases without breaking older versions on single-source ones, and helped **68% of active integrations** upgrade.
- Built webhook delivery for integrations on **Kafka**, keyed by workspace, with backoff retries, a dead-letter topic and batching of rapid page edits, delivering **96.8% of events** within a minute.
- Signed every webhook payload with **HMAC-SHA256** and blocked endpoint URLs that resolve to private or cloud metadata IPs to stop **SSRF**, rejecting **2,140 unsafe URLs** in the first month.
- Designed the webhook subscription and delivery log tables in sharded **PostgreSQL**, keyed by workspace ID and partitioned by day, so cleanup drops a partition instead of deleting **70M rows** a day.
- Added **OpenTelemetry** traces from the API gateway down to the shard query, wrote SLOs per endpoint and retuned noisy alerts, cutting monthly pages for Developer Platform on-call from 41 to **12**.

Algolia — **Software Engineer, Backend** — San Francisco, CA · Jul 2019 to Apr 2022

- Moved the top searches and no-result queries of the **Analytics API** onto **Citus** rollup tables with HyperLogLog and TopN, cutting p95 time for quarterly reports from 4.2 s to **310 ms**.
- Moved click and conversion intake for the **Insights API** into its own **Go** service with a strict event schema, cutting analytics stalls from bad SDK batches from 9 a year to **1**.
- Added **Go** integration tests against a real Citus cluster in Docker to the CI pipeline and shipped through canary deploys on **Kubernetes**, catching **17 regressions** before they reached customers.