# Nahom Gebregiorgis

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## SUMMARY

Software Engineer (Backend) with hands-on experience designing and delivering scalable backend systems, workflow automation pipelines, and data-driven platforms. Strong expertise in NestJS, TypeScript, distributed workflows, database-driven analytics, and clean architecture practices. Proven ability to build production-grade services across commerce, emissions intelligence, and enterprise education platforms.

## EXPERIENCE

### Software Engineer (Backend)

**Quote Commerce**                                                                                              **Aug 2025 – 2026**

· Built a multi-format document parsing pipeline ingesting PDF, CSV, and Excel attachments for automated RFQ and quote workflows.
· Integrated parsers (pdf-parse, csv-parser, xlsx) with format detection, schema validation, and structured output normalization.
· Developed backend services using NestJS, applying DDD and Clean Architecture principles.
· Implemented event-driven communication via NATS messaging and orchestrated long-running processes using Temporal workflows.
· Enabled downstream AI-powered quote automation through LangChain/LangGraph-ready pipeline outputs and Gmail API integration.

### Software Engineer (Backend)

**Carbon Sky Index**                                                                                        **Oct 2025 – Jan 2026**

· Built a typed Postgres analytics backend with Supabase supporting flights, emissions leaderboards, aircraft metadata, routes, subscriptions, and watchlists.
· Implemented aggregation logic including emissions totals, per-period comparisons, trend ranking, and route-level cost metrics.
· Designed secure RLS-aware access patterns integrated with Clerk authentication and service-role role administration.
· Developed Supabase Edge Functions for real-time emissions/flight alerts with automated email and Slack delivery.
· Authored SQL RPC functions for daily watchlist emissions aggregation with permissions and documentation.

### Software Engineer (Backend)

**E.D.G.E Platform**                                                                                        **Oct 2025 – Jan 2026**

· Implemented marklist/marksheet import and export workflows producing validated Excel reports with structured formatting and integrity checks.
· Built invoice PDF generation pipelines using PDFKit, supporting dynamic layouts, totals calculation, and branded assets.
· Designed CQRS-based export/download endpoints with streaming responses using NestJS Command/Query Bus.
· Integrated file storage and retrieval with MinIO (S3-compatible storage) including checksumming and metadata persistence.
· Secured assessment and billing APIs using JWT/JWKS authentication and access control best practices.

### Full-Stack Software Engineer

**Genesis AI Labs**                                                                                        **Aug 2025 – Dec 2025**

· Developed a production-grade React + Express platform showcasing company services, products, and AI/ML offerings.
· Built reusable UI infrastructure using TailwindCSS + Radix UI with responsive layouts and design- system consistency.
· Implemented secure contact workflows with Turnstile validation, sanitization, rate limiting, and Telegram notifications.
· Deployed the platform using Netlify proxying, Docker multi-stage builds, and Nginx reverse proxy configuration.

## EDUCATION

### BSc in Software Engineering

HiLCOE School of Computer Science & Technology · Expected Graduation: 2027

## SKILLS

Node.js, NestJS, TypeScript, CQRS, Domain-Driven Design (DDD), Clean Architecture

PostgreSQL, MongoDB, Supabase (Postgres), SQL

Temporal.io, NATS Eventing, Edge Functions

Docker, Redis, MinIO (S3-Compatible Storage)

REST APIs, DTO Validation (Zod), JWT/JWKS Authentication

React, Next.js, Tailwind CSS

Sentry, PostHog, Testing (Jest, Playwright, Vitest)