

Nahom W. Gebremichael

[Github](#) | [LinkedIn](#) | [Portfolio](#)

Addis Ababa, Ethiopia

EDUCATION

Addis Ababa University || *B.S. Information Systems/Science*

PROFESSIONAL EXPERIENCE

AfterQuery Experts | *AI training Contractor*

May 2026 – July 2026

- **AI Test Suite:** Built and evaluated software engineering test cases for AI model training, covering code correctness, edge cases, and reasoning quality.

Addis Ababa University Research Directorate | *Software Developer*

Feb 2026 – Present

- **e-GRATS:** Building a grant tracking system for the Office of Research Administration using Next.js, Django, and PostgreSQL.
- **Core Dev:** Implementing a multi-stage approval workflow with Role-Based Access Control (RBAC) and JWT-based security.

INSA (Information Network Security Administration) | *Apprentice*

Oct 2023 – Apr 2024

- **Data Extraction & Cleaning:** Engineered high-throughput web scraping scripts utilizing Python, Selenium, and Telethon to harvest large-scale unstructured data from Telegram and social media platforms.
- **Pipeline Development:** Built data cleaning and text-normalization pipelines to parse raw HTML/JSON, remove anomalies, and prepare structured datasets for downstream AI models.
- **API Deployment:** Built and put into production robust RESTful APIs using Express.js and Django to serve cleaned data feeds.
- **Exposition:** Presented AI-driven scraping and data analysis projects at multiple national technology expos.

CERTIFICATIONS & TRAINING

A2SV (Africa to Silicon Valley) | *DSA Intensive* |

Jan 2026 – Present

- Spent 4+ months doing intensive Data Structures and Algorithms.
- Solved **300+ problems** on **LeetCode** and **Codeforces**.

ALX Africa | *ProDev Back-End Programme* |

Oct 2025

- Learned the backend stack: **Django, SQL, Docker, and Kubernetes**.
- Completed Professional Foundations covering communication, teamwork, critical thinking, and problem-solving through real-world projects.

Cyber Talent Summer Camp | **INSA**

Dec 2023 – Jan 2024

- Gained foundational and intermediate software development practices, usage of various cybersecurity tools, and network security principles.
- Completed graduation project a news aggregator and analysis platform.

Google Cybersecurity Specialization | **Google**

Nov 2023

- Gained hands-on experience in cybersecurity practices, including risk assessment, network security, and incident response. Worked with DBMS, SIEM tools, threat analysis, and vulnerability assessment.

TECHNICAL SKILLS

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- **Languages:** Python, JavaScript, Go, TypeScript, SQL, C++.
 - **Frameworks/Tech:** Django, FastAPI, Node.js, ExpressJs, Next.js, Docker, Redis, PostgreSQL, Celery, BeautifulSoup, Telethon, Selenium, Scrapy

Projects

Scalable E-commerce Backend

Django · DRF · Docker · Celery · Redis · Chapa API

- Built a "headless" backend that handles complex order flows.
- **Payment Security:** Created a "Sync-Verify" system with the **Chapa API** to make sure payments are actually confirmed before updating stock, preventing errors during user redirects.
- **Background Tasks:** Used Celery and Redis to handle things like sending emails and updating inventory so the main app stays fast for users.
- Automated API documentation using **drf-spectacular (OpenAPI/Swagger)** and integrated **Ngrok** for secure local testing of server-to-server payment notifications.

h2o — OpenAPI Spec Generator

HAR Parsing · OpenAPI 3.0 · Python

- CLI tool that generates **OpenAPI 3.0** specifications from live network traffic or HAR files, automating schema creation by observing browser interactions without root certificates or manual configuration.
- Eliminates manual spec-writing by inferring request/response schemas, path parameters, and content types directly from observed traffic.

git-identity-manager

SSH · Bash

- A Bash CLI tool for seamlessly switching between multiple Git identities (work, personal, open-source) by managing SSH keys and git config profiles per repository or globally.
- Automates SSH agent loading and host aliasing so developers can push to multiple accounts without manual config edits.

AGQ Daemon

Go · Tauri · SQLite · Linux Systems

- A Go-based Linux daemon that polls /proc to discover local Antigravity AI language servers, tracking per-account quota and token consumption in real time.
- Exposes a local JSON HTTP API backed by SQLite, serving historical usage snapshots and analytics for a frontend dashboard (a Tauri UI).

HTTP Server from Scratch

Go · Networking · Systems Programming

- Implemented an HTTP/1.1 server from the ground up in Go, handling TCP connections, request parsing, routing, and response serialization without external frameworks.

Sami Technologies -- E-commerce Platform (sami-technologies.com)

Next.js · Python · Telethon · Supabase

- Developed a full online store for a major Ethiopian laptop vendor with real-time inventory sync.
- **Telegram Sync:** Wrote a Python bot that listens to, scrapes, and parses product data from Telegram posts, automatically updating the centralized Supabase inventory database.

More technical work available on my [GitHub](#)