

Yohannes Kindu Mekonnen

Backend Engineer · Node.js · ASP.NET Core · PostgreSQL · Fintech & Real-Time Systems

Addis Ababa, Ethiopia · Open to Remote

Yohannes.Kindu@gmail.com · +251 942 150 008 · [linkedin.com/in/yohannes-k-mekonnen](https://www.linkedin.com/in/yohannes-k-mekonnen) · github.com/JohnHacker1998 · portfolio.johnhacker.dev

PROFESSIONAL SUMMARY

Backend Engineer with 4+ years building production-grade APIs and data pipelines across fintech, healthcare, and e-learning platforms. Experienced across Node.js and .NET stacks, with deep focus on async job processing, cloud-integrated architectures, and complex domain workflows. Comfortable owning entire subsystems — from schema design to deployment — and delivering reliable, scalable systems in fast-moving teams.

PROFESSIONAL EXPERIENCE

Adroit Technology Solutions | California, US (Remote)

Backend Engineer Oct 2024 – Mar 2026

Core backend engineer on a broker-dealer fundraising platform serving 10+ institutional clients. See project highlights below.

- Owned 5+ backend subsystems end-to-end over 2 years across a platform serving 10+ broker-dealer clients: offering versioning, investor portal theming, bulk data export, page asset caching, and the notification pipeline.
- Took full backend ownership of assigned domains from schema design through deployment, contributing to a platform handling real-time financial transactions and investor management at scale.

Aladia | Torino, Italy (Remote)

Backend API Developer May 2024 – Aug 2024

- Designed and implemented backend microservices in a NestJS architecture for a scalable e-learning platform, owning service boundaries, API contracts, and data models.
- Built LLM-powered features for personalized course recommendations and dynamic content generation, integrating language model workflows into the content delivery pipeline.

Lucyhub | USA (Remote)

Full-Stack Web Developer Sep 2023 – Mar 2024

- Led migration of a hospital management system to .NET 7 with zero downtime, modernizing the application stack and resolving performance bottlenecks across critical healthcare workflows.
- Identified and resolved multiple critical backend reliability issues across patient management and scheduling modules, significantly improving system stability for production healthcare operations.

Chainlinx Technologies | Addis Ababa

Backend Web Developer Jan 2023 – Sep 2023

- Built scalable REST APIs for an ERP platform supporting SME operations, handling concurrent multi-client workflows across HR, attendance, and project management modules.
- Engineered a geolocation-based attendance system with GPS radius validation, preventing fraudulent check-ins and enforcing physical presence constraints.
- Delivered full regional localization: Ethiopian calendar, local public holiday management, and timezone-aware scheduling — enabling the platform to serve both local and international users correctly.

Orange Digital Center | Addis Ababa

Backend Developer (Intern) Oct 2022 – Nov 2022

- Built ERP backend services for micro and small businesses, including accounting modules covering transaction processing, general ledger management, and financial reporting.

NOTABLE PROJECTS

Broker-Dealer Fundraising Platform — Adroit Technology Solutions

NestJS · PostgreSQL · TypeORM · BullMQ · Redis · Azure Blob & CDN · SendGrid · BoldSign

- Designed the end-to-end offering versioning system covering bonus share and warrant share flows — handling complex state transitions, investor eligibility rules, and audit-safe data mutations.

- Architected a white-label theming engine where issuer customizations trigger a BullMQ background job that compiles a CSS bundle, saves it to Azure Blob Storage, and injects it via CDN into the React frontend — eliminating per-request rendering overhead.
- Engineered an HTML page extraction pipeline that scrapes and caches external landing page assets to Azure Blob Storage, enabling any page to be served as a native branded landing page inside the platform.
- Built a bulk data export system processing 100k+ investor records per report using chunked BullMQ jobs with streamed output to Azure Blob Storage — keeping the API fully non-blocking under heavy load.
- Implemented a structured email notification system (SendGrid + MJML) and BoldSign digital signing integration, wired into a unified event-driven notification pipeline.

Chainlink ERP — HR & Workforce Management Platform

NestJS · Node.js · MySQL · TypeORM

- Solely owned the entire backend of a production HR platform serving construction businesses across multiple sites and timezones — covering attendance, payroll, leave, and project tracking for a multi-country workforce.
- Implemented a full Ethiopian calendar engine replacing Gregorian date logic across scheduling, leave, payroll, and reporting — including public holiday and custom sick leave support.
- Built a monthly payroll background job aggregating attendance, leave, and deductions into audit-ready reports — reducing manual payroll processing effort and supporting direct use in financial audits.

Restaurant Management System API

ASP.NET Core · SignalR · Entity Framework Core · MS SQL Server

- Designed RESTful APIs for full order lifecycle management across mobile and admin clients, with kitchen routing and SignalR-powered real-time status updates.
- Built ingredient-level inventory tracking with automatic stock deduction per order, maintaining data consistency through service-layer transactions.

Hagere Bingo — Multitenant Betting Platform

Node.js · Express.js · MySQL · TypeORM

- Architected a multitenant production bingo platform with full tenant isolation, admin controls, and multilingual support for Amharic and Oromiffa including audio-based language delivery.

TECHNICAL SKILLS

Backend Frameworks: Node.js, NestJS, Express.js, ASP.NET Core Web API, Codelgniter

Languages: TypeScript, JavaScript, C#

Data: PostgreSQL, MySQL, MS SQL Server, MongoDB, Mongoose, Entity Framework Core

Async & Infra: BullMQ, Redis, Docker, GitHub Actions

Cloud & Integrations: Azure Blob Storage, Azure CDN, SendGrid, BoldSign, OpenAI API

Testing: Jest, NUnit

EDUCATION

BSc Computer Science — HilCoE School of Computer Science and Technology, Addis Ababa

Graduated: May 2022 (Oct 2017 – May 2022)

LANGUAGES

Amharic (Native) **English** (Professional Working Proficiency)