Yeabsira Dereje

Backend Software Engineer

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PROFILE

Backend Software Engineer specializing in **Spring Boot and NestJS**, with experience building production microservices, event-driven systems, and resilient backend services. Experienced across API design, distributed processing, data consistency, caching, observability, and production deployment. Currently pursuing an **MSc in Computer Science at Paris Lodron University of Salzburg, Austria**.

SKILLS

Languages & Frameworks
Java, TypeScript, JavaScript, Python, Spring Boot, Node.js, NestJS, FastAPI

Databases & Data
PostgreSQL, MySQL, MongoDB, SQLite, TypeORM, Liquibase

Version Control & Collaboration
Git, GitHub, GitLab

Architecture & Systems
Microservices, REST APIs, Event-Driven Architecture, Distributed Systems, Service Orchestration, Caching, Asynchronous Processing

Infrastructure & Cloud
Docker, Docker Compose, Kubernetes, Nginx, CI/CD, GitHub Actions, GCP, AWS

Messaging & Resilience
Apache Kafka, RabbitMQ, Redis, Bull Queue, Outbox Pattern, Idempotency, Circuit Breakers

Security & APIs
OAuth, JWT, TLS/SSL, MFA, Rate Limiting, REST, GraphQL

PROFESSIONAL EXPERIENCE

Zagoal 01/2026 | Remote

Lead Backend Software Engineer

Lead backend architecture and development for a lifestyle fulfillment platform covering accommodations, activities, dining, entertainment and transportation bookings.

- Designed and developed **NestJS microservices** using REST APIs and Kafka-based asynchronous communication.
- Implemented the **Outbox Pattern, idempotency mechanisms and transactional workflows** for reliable distributed processing.
- Built resilience mechanisms including **circuit breakers, exponential backoff and backpressure management**.
- Designed **priority queues, capacity limits and controlled rollout strategies** for production workloads.
- Implemented structured observability using **correlation/trace IDs, health checks and real-time operational metrics**.
- Built and deployed services using **PostgreSQL, Redis, Kafka, Docker and GCP CI/CD**.

Core Technologies: NestJS, TypeScript, TypeORM, PostgreSQL, Redis, Kafka, Bull Queue, Docker, GCP CI/CD, Neo4j

Inspur 11/2024 – 08/2026 | Addis Ababa, Ethiopia

Software Engineer

Develop and maintain production **Spring Boot backend systems** for enterprise platforms, focusing on API architecture, database performance, event-driven processing and system resilience.

- Developed Spring Boot services for **e-commerce platform**, integrating MySQL, Liquibase, Redis, Docker and Nginx.
- Developed and optimized logistics services for the **Port Delivery System** using PostgreSQL, Spring Cloud Config and Kafka.
- Built secure backend services for **Intergated e-commerce system**, supporting real-time orders and transactions with Redis, Liquibase and Nginx.
- Contributed to scalable, production-oriented backend architecture across e-commerce and logistics systems.

Core Technologies: Java, Spring Boot, Spring Cloud, PostgreSQL, MySQL, Kafka, Redis, Liquibase, Nginx, Docker.

Kegebrew Technology Solution 01/2024 – 11/2024 | Addis Ababa, Ethiopia

Software Developer

- Developed backend functionality for business applications using **Node.js**.
- Built backend workflows for an affordable housing platform and consumer credit management system.
- Developed a taxi booking administration system with real-time data management.

Core Technologies: Node.js, React, Next.js, Apollo Client, Redux

EDUCATION

Paris Lodron University of Salzburg

MSc Computer Science

10/2026 – Present | Salzburg, Austria

Unity University

Bachelor of Science

08/2020 – 07/2023 | Addis Ababa, Ethiopia

GPA: 3.77 / 4.00 — Very Great Distinction

Final Project: **Accounting Journal Management System** Led the design and implementation of the system as part of a team that received an **A+** for the final project.

CERTIFICATES

Complete Java SE + Spring Boot with REST API, JPA, MVC, Security, Microservices + SQL with MySQL +JDBC