

Abdelrahman Tarek

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Professional Summary

Backend-focused Software Engineer with strong experience building scalable and high-performance systems using Go, Java, and Node.js. Specialized in microservices architecture, distributed systems, and backend optimization. Experienced with complex filtering layers, caching strategies, search platforms, and data ingestion pipelines using Redis, Elasticsearch, Kafka, and headless scraping solutions. Comfortable owning backend services end-to-end and rapidly adapting to large production codebases.

Education

Cairo University

BS in Computer Science

Sep 2020 – Jul 2024

- GPA: 3.01 / 4.0

- Coursework: Data Structures, Algorithms, Operating Systems, Databases, Software Engineering, Computer Networks

Experience

Backend Software Engineer

TechyTypes — DoAnalysis Project

Sep 2025 – Present

- Developed and maintained backend microservices using Go for the DoAnalysis platform, following clean and layered architecture principles.
- Designed and implemented a reusable filtering layer shared across multiple services, enabling complex query composition with improved performance and maintainability.
- Worked extensively with MariaDB and MySQL, optimizing queries, indexes, and data access patterns for high-throughput workloads.
- Integrated Redis as a caching layer to reduce database load and significantly improve API response times.
- Built and optimized Elasticsearch indexes and queries to support advanced search, aggregation, and analytics features.
- Implemented Kafka-based asynchronous workflows to process high-volume events and decouple system components.
- Developed and maintained headless web scrapers using Node.js to collect and ingest external data sources into the system reliably.
- Created and managed cron jobs for scheduled scraping, data synchronization, cleanup operations, and background processing tasks.
- Identified performance bottlenecks and applied targeted optimizations that improved system scalability, stability, and overall responsiveness.
- Took ownership of backend features, collaborated closely with the team, reviewed code, and delivered production-ready solutions while ramping up quickly on a large existing codebase.
- Tools Used: Go, Node.js, MariaDB, MySQL, Redis, Elasticsearch, Kafka, Docker, Git, Microservices

Full-Stack Developer

Meits Technology

Jun 2025 – Present

- Built full-stack web applications using React, NestJS, and PostgreSQL following clean architecture principles.
- Designed secure REST APIs and integrated third-party services.
- Improved frontend performance and implemented responsive UI designs.

Software Engineer

MasteryHub

Feb 2025 – May 2025

- Developed backend services using NestJS and Spring Boot with modular and maintainable architecture.

- Designed REST APIs with authentication and role-based access control.
- Worked with PostgreSQL, MySQL, and MongoDB.
- Containerized services using Docker and docker-compose.

Software Engineer Intern

Aug 2024 – Oct 2024

Orange

- Developed Java Spring Boot applications using clean coding practices and design patterns.
- Worked with MySQL and MongoDB, focusing on efficient querying and data modeling.
- Participated in unit, integration testing, and secure coding practices.

Skills

- Programming Languages: Go, Java, JavaScript, TypeScript, Python, C++
- Backend Technologies: Microservices, REST APIs, Kafka, Redis, Elasticsearch, Headless Scraping
- Databases: MariaDB, MySQL, PostgreSQL, MongoDB
- Tools: Docker, Git, Linux, Postman, Jira

Achievements

- Ranked 8th in ECPC 2023 Qualifications and qualified for ECPC Finals
- ECPC Finalist 2023
- Ranked 29th in ECPC 2022 Qualifications