

YOHANNES MERGA

Full-Stack Engineer

✉ johnmergaalex@gmail.com [in](#) yohannes-merga-a1504a214 [github](#) johnmerga

PROFESSIONAL SUMMARY

Backend-focused full-stack engineer with 4+ years of experience building scalable systems for startups, ERP platforms, automation tools, and AI-powered products, with a strong focus on APIs, system design, and reliability.

EXPERIENCE

Lead Software Engineer,

01/2024 – 06/2025 | A.A, Ethiopia

Solo Backend & Team Lead for Frontend | Mereb Technologies

- Improved recruiter selection speed by 4x, measured by reduced screening time, by designing expressjs and async FastAPI-based microservices for candidate ingestion, scoring, and workflow automation.
- Increased candidate registrations by 10x, measured by daily signups, by architecting a cloud-native microservices platform with PostgreSQL, Redis caching, and event-driven processing.
- Reduced initial interview time by 50%, measured by recruiter feedback, by integrating AI-based pre-screening pipelines using async Python workers and message queues.
- Boosted search performance by 80%, measured by query latency, by integrating Typesense with optimized PostgreSQL queries and indexed data models.
- Eliminated user-facing provisioning delays, measured by near-zero wait time, by implementing a scheduler-backed async service to spin up isolated IDE environments on demand.
- Improved system reliability, measured by production incidents, by adding automated Pytest coverage and containerizing services with Docker for consistent deployments.

Backend Engineer, Real Gaming

03/2025 – 01/2026 | Remotely (USA)

- Increased active users by 30%, measured by monthly growth metrics, by developing scalable backend services for marketplace features and in-game transactions.
- Resolved recurring API outages, measured by reduced downtime, by diagnosing PostgreSQL connection exhaustion and optimizing SQLAlchemy connection pooling and query patterns.
- Improved fault tolerance and observability, measured by faster incident detection, by integrating ELK-based logging and monitoring for high-load backend services.
- Enabled reliable event-driven workflows, measured by successful reward processing, by implementing RabbitMQ-based messaging pipelines for user signup and wagering events.
- Ensured low-latency inter-service communication, measured by request round-trip times, by designing gRPC-based microservices integrated with a legacy PHP core.

Backend Engineer,

09/2025 – 12/2025 | Remotely(Slovenia)

ERP System Modernization | PRO-BIT PROGRAMSKA OPREMA d.o.o.

- Reduced service discovery failures, measured by production incidents, by designing a centralized service registry for distributed microservices.
- Improved system availability, measured by uptime, by implementing TTL-based heartbeats and automatic deregistration of unhealthy service instances.
- Enabled real-time health monitoring, measured by operational visibility, by exposing service metadata and status endpoints for observability dashboards.
- Strengthened distributed system resilience, measured by load-balancing efficiency, by tracking instance-level health across concurrent workloads.

Backend Engineer, Sulala

11/2023 – 06/2024 | Remotely(Kuwait)

- Reduced API response times by 8%, measured by latency benchmarks, by designing RESTful backend services with optimized PostgreSQL schemas and indexes.
- Improved data retrieval performance by 11%, measured by query execution time, by tuning SQL queries and database access patterns.
- Ensured reliable background processing, measured by task success rates, by building Redis-backed task queues using Celery and async workers.
- Achieved 85% test coverage, measured by CI reports, by writing production-grade automated tests using Pytest.

Full-Stack Engineer, Siinqee Bank

06/2023 – 01/2024 | A.A, Ethiopia

- Accelerated issue resolution by 3x, measured by response time, by building internal automation tools and messaging bots for operational teams.
- Improved infrastructure consistency, measured by deployment stability, by automating server configuration and updates using Ansible.
- Reduced customer complaints, measured by support tickets, by integrating location verification services and backend APIs for branch data management.

Junior Fullstack Developer, EagleLion System Technology

10/2022 – 01/2023 | A.A, Ethiopia

- Improved deployment reliability, measured by release success rate, by containerizing services with Docker and standardizing CI/CD workflows.
- Enhanced data visibility for stakeholders, measured by reporting accuracy, by contributing to a role-based BI dashboard for financial data.

- Strengthened API quality, measured by test coverage, by contributing automated test cases integrated into the CI pipeline.

SKILLS

— JavaScript/TypeScript, Python, Go | Express, NestJS, Django/DRF, React, Next.js | PostgreSQL, MongoDB, MySQL, Redis, SQL | Docker, GitHub Actions, CI/CD, n8n | Web3, Solidity, ERC20/721, Hardhat, Polygon | Jest, Chai | gRPC, RESTful API Design, Swagger, Microservices, Event-Driven Architecture, Typesense, Celery | ELK, Opensearch, RabbitMQ, Kafka | AWS, GCP (google cloud), Hetzner

EDUCATION

Addis Ababa University  , Bachelor Degree in Software Engineering	10/2017 – 07/2022 A.A, Ethiopia
ALX  , ALX SOFTWARE ENGINEERING PROGRAM	06/2021 – 06/2022
12-month intensive program specializing in Backend Development	