

Mahmoud Ali Ibrahim

Technical Team Lead | Backend, Platform & Mobile Engineering

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PROFILE

Hands-on technical leader with nine years of software engineering experience across Ruby on Rails, PostgreSQL, React, React Native, infrastructure, and delivery. Connects architecture decisions with implementation, production recovery, reversible modernization, and engineering standards.

PROFESSIONAL EXPERIENCE

High-Five | Technical Team Lead

February 2026-present | Client engagement through Remotecoders

- Lead hands-on architecture and delivery across Rails, PostgreSQL, Next.js, infrastructure, and LLM-integrated products, carrying technical decisions through investigation, implementation, and release.
- Led investigation, recovery, preventive changes, and production release after stale PostgreSQL connections consumed Rails request capacity. Added bounded connection handling and symptom-focused alerting; the same monitored 504 pattern was not observed for approximately one month.
- Shipped native Liquid partial rendering, avoided unnecessary prompt rebuilding during chat loading, reduced repeated database lookups, and composed organization-specific context around reusable agent behavior. Production performance impact was not quantified.
- Introduced smaller release batches, stronger automated testing, and automated deployment gates within the client technical team.

1Trolley Cloud

May 2019-February 2026 | Dubai, United Arab Emirates

Technical Team Lead: September 2025-February 2026

Software Team Lead: August 2021-August 2025

Senior Software Engineer: May 2019-July 2021

- Led backend architecture, mobile delivery, release coordination, production reliability, and engineering standards for SaaS and e-commerce products.
- Led automated tests, CI gates, deployment automation, mobile release pipelines, environment standards, and post-release monitoring.
- Backend/web production releases moved from weeks apart to weekly or multiple times per week. Manual DORA-informed reviews guided smaller batches and pipeline improvements; approximately 70% coverage was required for new or changed code, rather than the whole repository.

KlubKangaroo | Software Engineer

September 2017-March 2019 | Dubai, United Arab Emirates

- Built and maintained customer-facing e-commerce mobile functionality with React Native, Redux, and Reselect.

Tagipedia | Software Engineer / Software Engineering Intern

Software Engineer: April-August 2017 | Intern: January-March 2017 | Giza, Egypt

- Contributed to indoor-mapping and customer projects across Rails, Android, JavaScript, React Native, Angular, C#, and ASP.NET.

SELECTED CONCURRENT ENGAGEMENTS AND WORK

WEPN | Mobile Lead

July 2020-present | Direct contract

- Primary owner of the React Native mobile architecture across iOS and Android, including native integration, testing, dependency maintenance, and Fastlane/Azure DevOps release workflows. Backend and pod software are outside this ownership claim.
- Designed the public onboarding compatibility test: discover the router, create a temporary port mapping, open a phone-side listener, request an external probe, and clean up. Actual inbound reachability establishes compatibility across the router/ISP boundary.
- Evolved service detection to handle inconsistent device/XML structures safely. No adoption or pass-rate metric is claimed.

Confidential Rails platform | Modernization and financial correctness

July 2026 | Client anonymized

- Primary executor of PostgreSQL and storage rehearsal, restored-production-data checks, backup verification, and production cutover. Used mirrored storage and explicit rollback paths; completed with under one hour of customer-visible downtime and no known migration failure.
- Identified and corrected a CHF 1,778 discrepancy through canonical calculations, stakeholder policy clarification, and regression coverage. The correction shipped with no known related recurrence or complaint.

Infrastructure capacity and recovery | Local rehearsal

October 2026 | Anonymized infrastructure work

- Implemented local infrastructure/test tooling across Ansible, k6, a mock LLM, infrastructure monitoring, and PgBouncer. Two 100-user lab runs peaked at 70 direct versus 18 pooled application-role database connections.
- A point-in-time restore on a fresh VM recovered an earlier 1,000-row batch and excluded a later batch. The database was 22 MB; these results do not establish production capacity, recovery time, or a cloud rollout.

Observability operations | Deployment configuration and runbooks

September-October 2026 | Anonymized engagement

- Contributed PostHog/Langfuse configuration, ingestion routing, ClickHouse diagnostic-log caps, Celery worker tuning, and runbooks. Reviewed baseline confirmed deployed; later tuning is source-supported with no independently verified later deployment or quantified cost/uptime outcome.

Independent consulting

2020-2023 | Backend and mobile

- 27 completed Upwork contracts; 4.8 aggregate rating across 20 ratings and 69 tracked hours.

TECHNICAL CAPABILITIES

- Backend and data: Ruby, Rails, PostgreSQL, Active Record, REST APIs, background jobs, query optimization.
- Web and mobile: JavaScript, React, Next.js, React Native, Redux, native iOS/Android integration.
- Infrastructure and delivery: Docker, Ansible, GitHub Actions, Azure DevOps, Fastlane, Kamal, S3-compatible storage, Ubuntu/systemd, backup and restore.
- AI workflows and leadership: Liquid, RubyLLM, prompt composition, reusable agent/context design, incident leadership, reversible migrations, mentoring, code review, and stakeholder communication.

EDUCATION AND LANGUAGES

Bachelor of Engineering in Computer Engineering | Shoubra Faculty of Engineering, Benha University | 2011-2016

Arabic: native | English: professional working proficiency