

Abdulrahman Al-Fakiah

Full-Stack Engineer | Backend Infrastructure · Mobile Platforms · Data Systems

Sana'a, Yemen · +967 772 731 388 · abdulrahman1ye@gmail.com

[LinkedIn](#) · [GitHub](#)

Professional Summary

Lead Full-Stack Engineer with **4+ years of experience** building production-grade systems across **data engineering, backend platforms, and mobile applications**. Proven track record of designing **high-throughput data ingestion pipelines, graph-based identity resolution systems, and server-driven mobile architectures** powering consumer platforms at scale (**11,500+ users**). Deep expertise in **Python/Prefect, Node.js / TypeScript, and React Native**, with measurable impact including **87.5% ingestion time reduction, 200% traffic growth**, and sustained **97% crash-free mobile performance**. Experienced in technical leadership, system design, and shipping end-to-end features from raw data to user-facing products.

Core Skills

Data Engineering & Infrastructure

Python · Prefect · CrawleeJS · Node.js
PostgreSQL · Typesense · AWS S3 · AWS EC2
ETL Design & Canonicalization · Stream Processing · Filesystem Queues
Docker · Nginx · Data Quality & Governance

Backend & Admin Platforms

Node.js · TypeScript · Laravel · Filament
REST APIs · Server-Driven UI (SDUI) · RBAC
Audit Logs · Admin Tooling · Search & Indexing Pipelines

Mobile & Cross-Platform

React Native · Expo · FlashList · Reanimated
TanStack Query · Streaming Interfaces (AI Chat)
RTL / i18n · CI/CD · Release Management
Firebase (Crashlytics, Analytics)

Leadership & Engineering Process

Technical Mentorship · PR Reviews & Standards
Architecture Ownership · Cross-Team Collaboration
Agile Delivery · Production Monitoring & Stability

Key Achievements

- 🚀 **Pipeline Efficiency:** Reduced critical data ingestion time by **87.5% (8h → 1h)** by refactoring CrawleeJS pipelines, introducing parallelism, and restructuring routing and system architecture.
- 🧠 **Data Intelligence:** Designed a **graph theory-based identity resolution engine** matching products across **14+ stores**, achieving **80% stable ID coverage** and enabling clustering features that drove a **200% traffic increase**.
- 🧩 **Data Normalization:** Built canonical ETL pipelines normalizing specifications across **50+ product categories**, enabling accurate cross-store comparison and reliable product matching.

- 📱 **Mobile Scale:** Delivered and maintained a consumer mobile app serving **11,500+ users** with a sustained **97% crash-free rate**, increasing affiliate **CTR by 10%**.
- 🛠️ **Operational Autonomy:** Designed and deployed a **Server-Driven UI (SDUI) framework**, enabling non-engineers to manage layouts, banners, and promotions without mobile releases.

Professional Experience

Nexumind — Full-Stack Engineer | Remote (Saudi Arabia)

December 2024 – Present

Lead Full-Stack Engineer for the **Rakhys ecosystem (11,500+ users)**, driving architectural decisions across data ingestion, backend systems, and mobile platform development.

Data Systems & Architecture (Python / Prefect)

- Designed a **graph theory–based identity resolution engine** (PostgreSQL) across **14+ stores**, achieving **80% stable ID coverage** and enabling **200% traffic growth**.
- Developed **canonical ETL pipelines** normalizing specifications across **50+ product categories**.
- Led a complete **refactor of CrawleeJS scraping pipelines**, redesigning orchestration, routing, and execution flow for scalable parallel collection.
- Engineered a **Node.js/TypeScript ingestion service** using filesystem queues and stream processing to transport data to **AWS S3**.

Backend & Admin Platform (rakhys_admin)

- Engineered the **data aggregation and indexing service** powering real-time B2C search via **Typesense**.
- Built **admin tooling with audit logs**, enabling non-engineers to correct automated data errors.
- Designed and deployed a **Server-Driven UI (SDUI) framework** for OTA mobile updates.

Mobile Platform (React Native — 11,500+ Users)

- **Live:** [iOS](#) · [Android](#)
- Implemented a **streaming AI chat interface** delivering low-latency UX.
- Improved list FPS by **25%** using **FlashList** and **Reanimated**.
- Led **v6.0 UI/UX redesign**, CI/CD changes, and full **RTL support**.
- Maintained a **97% crash-free rate**, increasing affiliate **CTR by 10%**.

Technical Leadership

- Mentored a junior React Native developer and enforced PR review standards.

Tech Stack: Python, Prefect, Node.js, TypeScript, CrawleeJS, Laravel, Filament, PostgreSQL, AWS S3, Typesense, React Native, FlashList, Reanimated, Docker, Nginx, Firebase

Horizontal — Backend Developer | Sana'a, Yemen

Nov 2022 – Oct 2024

- Built **Laravel REST APIs** and normalized schemas for a logistics platform.
- Architected multi-tenant **RBAC** systems.
- Reduced API latency by **20%** via eager loading and indexing.

Tech Stack: Laravel, MySQL, REST APIs, Eloquent, Sanctum

Artech Software Solutions — Full-Stack Developer | Sana'a, Yemen

Nov 2022 – Oct 2023

- Built **Hatheq**, an e-commerce platform using **Laravel** and **Flutter**.

- Integrated **FCM** for push notifications.

Tech Stack: Laravel, Flutter, Firebase, MySQL

IUTT Research Team — Junior ML Engineer | Sana'a, Yemen

Oct 2021 – Sep 2022

- Built a **masked face recognition model (93% accuracy)** using VGG16/ResNet.
- Co-authored a paper published in **Springer ICESP 2023**.

Education

B.Sc. Computer Science

International University of Technology Twintech, Sana'a, Yemen | 2018–2022

Publications

“Masked Face Recognition Using Transfer Learning Approaches”

4th International Conference on Electronics and Signal Processing (ICESP 2023) · Springer, Cham

[DOI: 10.1007/978-3-031-36670-3_3](https://doi.org/10.1007/978-3-031-36670-3_3)