

# Ahmed Osama Ahmed Farouk

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## PROFESSIONAL SUMMARY

Backend / full-stack software engineer with strong experience in Java, Spring Boot, and Angular. Focused on designing secure, scalable, and testable services, automating manual workflows, and collaborating closely with stakeholders. Open to remote and hybrid roles in Egypt, and relocation.

## PROFESSIONAL EXPERIENCE

### Software Engineer

2023 – Present

#### Data Gear

- Developed and maintained eKYC onboarding, AML monitoring, and FATCA/CRS/IRS reporting platforms for +5 financial institutions
- Automated data ingestion, validation, and XML reporting pipelines that process millions of records and cut report preparation from 2 days to under 2 hours
- Contributed to digital onboarding (ID verification, risk scoring, PEP/sanctions screening) and modernized a legacy desktop reporting solution to a Spring Boot/Angular web application

### Software Developer Freelancer

Mar 2020 – Present

#### Upwork / Outlier

- Delivered +17 projects for international clients across Java/Spring, TypeScript/JavaScript, Python, C++, and ML/data engineering
- Fine-tuned AI models for automated bug analysis and PR generation; supervised code quality and merge decisions for 4–5 months on production codebase

## NOTABLE PROJECTS

### eKYC | Angular 18, TypeScript, PrimeNG

- Contributed to digital onboarding platform with automated ID verification, risk scoring, and PEP/sanctions screening via OCR/ID provider integrations
- Developed backend services and Angular UI screens, reducing manual review time and eliminating handwritten paperwork

### FATCA/CRS Reporting | Java 21, Spring Boot 3.4, Spring Data JPA, Liquibase, ActiveMQ (JMS), Lombok

- Architected database-agnostic query builder using Spring Boot Criteria Builder API for MySQL, Oracle, SQL Server, and PostgreSQL
- Designed automated data collection, validation, and XML generation pipeline processing millions of records, reducing report time from 2 days to under 2 hours

### IRS IDES Data Preparation | Java 8, Spring Boot 2.5, Spring Data JPA, Spring WebSocket, OpenCSV, Jackson

- Migrated legacy Java desktop application to web-based Spring Boot/Angular platform, enabling remote access and on-premises deployment
- Implemented data ingestion from CSV, Excel, and database sources with validation, account grouping, currency conversion, and XML schema compliance, reducing IRS errors

## EDUCATION

### ITI in AI and Machine Learning

Oct 2021 – Aug 2022

Information Technology Institute (ITI), Alexandria, Egypt

AI-PRO Program

### BSc in Software Engineering

Sep 2017 – Jun 2021

Faculty of Computer Science, Kafrelsheikh University

Very Good (GPA: 3.0)

## TECHNICAL SKILLS

**Programming Languages:** Java 8/21, Python, JavaScript, TypeScript, SQL

**Backend & APIs:** Spring Boot 2.5/3.3, Spring Data JPA, Spring Security, Spring Batch, REST APIs, Lombok

**Frontend & UI:** Angular 18, PrimeNG, NgRx, HTML, CSS

**Data Stores & Messaging:** Oracle, SQL Server, MySQL, PostgreSQL, MongoDB, ActiveMQ (JMS)

**DevOps & Platform:** Docker, Maven, Git, Linux, Shell scripting, AWS, Liquibase, OpenAPI/Swagger

**Testing & Quality:** JUnit, Spring Boot Test, REST Assured, Postman, Bruno

**AI/ML & Data:** Python (Pandas, Numpy, Sklearn), Jupyter Notebook

## LANGUAGES

**Arabic:** Native | **English:** Professional