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
- Backend and full-stack development for compliance and onboarding platforms serving +5 financial institutions
- Key projects: digital onboarding (eKYC), tax reporting (FATCA/CRS, IRS IDES), and AML workflows

    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

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

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