AHMED OSAMA AHMED FAROUK

Software Engineer

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EDUCATION

Information Technology Institute (ITI)   Alexandria, Egypt
AI and Machine Learning (AI-PRO) – 9 Month Program   *Oct. 2021 – Aug. 2022*

Kafrelsheikh University   Kafr El-Sheikh, Egypt
B.Sc. in Software Engineering, Very Good (GPA: 3.0)   *Sep. 2017 – Jun. 2021*

EXPERIENCE

Software Engineer   2023 – Present
Data Gear

- Collaborated in the development and enhancement of AML (Anti-Money Laundering) solutions with a focus on FATCA and IRS compliance
- Worked closely with cross-functional teams, learning from compliance officers and financial analysts to understand the effective integration of eKYC, FATCA, and IRS solutions into the banking framework
- Gained hands-on experience in full-stack development using Java, Spring Boot, Angular, and REST APIs

Software Developer Freelancer   Mar. 2020 – Present
Upwork

- Landed various jobs including End-to-end ML projects, Java, and Android development
- System Administrator (IT) remotely

PROJECTS

eKYC | *Angular, Spring Boot*

- KYC is a crucial practice in financial institutions to protect customers from fraud and losses, establish their identity, understand their activities, and assess money laundering risks to ensure legitimacy and security.

FATCA/CRS Reporting System | *Java 21, Spring Boot 3.3, Angular 18, REST APIs, Liquibase, MapStruct, Lombok, Spring*

- Developed a comprehensive FATCA/CRS reporting system for international tax compliance. Implemented automated data collection, validation, and XML document generation for multiple jurisdictions. Ensures compliance with OECD Common Reporting Standard and FATCA regulations, processing large volumes of financial data and generating accurate regulatory reports.

IRS IDES Data Preparation System | *Java 8, Spring Boot 2.5, Angular 18, XML Schema, Encryption, Digital Signing, Spr*

- Developed an enterprise-level IRS IDES (International Data Exchange Service) data preparation system for automated generation of regulatory reports and XML document preparation. Implemented secure data transmission protocols, encryption mechanisms, and digital signing capabilities for compliance with international tax reporting standards.

TECHNICAL SKILLS

Languages: Java 8/21, Python, JavaScript, TypeScript, SQL, C++
Frameworks & Libraries: Spring Boot 2.5/3.3, Angular 18, React, Node.js, TensorFlow, PyTorch
Databases: MySQL, Oracle, SQL Server, PostgreSQL, MongoDB
Spring Ecosystem: Spring Data JPA, Spring Security, Spring Session, Spring Validation, Spring Actuator, Spring WebSocket
Developer Tools: Maven, Git, Docker, AWS, Linux, Power BI, Tableau, MapStruct, Lombok, Liquibase
AI/ML: PySpark, Numpy, Sklearn, Pandas, Web Scraping
Web: HTML, CSS, REST APIs, XML Schema, Encryption, Digital Signing

CERTIFICATIONS

Data Analysis Advanced Track – Udacity (2022)   **Machine Learning** – Stanford University, Coursera (2022)
Android Native Application Development (Java) – New Horizons (2019)

Awards

Kaggle Competition – 2nd Place *ITI, May 2022*

- Classified dry beans types out of 7 different beans using feature engineering; applied dimensionality reduction and 5 different models; combined into Voting Classifier with F1-score 0.95378 (Public) and 0.94003 (final testing)

Languages

Arabic: Native/Bilingual **English**: Proficient