Mohamed Tamer
Software Engineer

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About Me

Hello, I'm Mohamed, a 28-year-old dedicated Software Engineer and content creator. With 4 years of intensive self-study in programming and no formal mentor, I bring a unique drive to my work. I have 2 years of hands-on experience in Android Native development and an additional 2 years at Elsewedy Electric, where I engaged with a plethora of technologies, tools, and intricate integrations.

Currently, I am pursuing a diploma in computer science at Cairo University to deepen my expertise in computer science and programming.

Beyond my professional roles, I actively contribute to the open-source community, showcasing extensive expertise in various tech domains, including Android Native, Oracle DB, Spring, Web Development, Java, Kotlin, and more.

My professional journey reflects a commitment to continuous learning, and I am ambitious to further develop my skills in a collaborative environment. Engaging with all facets of the development lifecycle, my work focuses on crafting user-centric, innovative solutions and delivering clean code through effective teamwork.

Education History

Bachelor of Laws
Helwan University
Year of Graduation: 2017 - 2021

Diploma Computer Science
Cairo University
2023 - Present

Work Experience

Software Engineer
Elsewedy Electric
2022 - Present

- Working closely with clients, cross-functional departments, and other staff, such as project managers, system analysts and functional/technical team by analyzing user requirements, envisioning system features and functionality to fulfill business needs.
- Monitoring, developing, modifying and troubleshooting current software solutions and new (e.g. desktop, web, mobile applications and computer operating systems) by using SDLC processes, design methodologies, different programming languages and software tools.
- Writing technical and operational documentation with other technical & functional team members for produced software solutions.
- Integrating software solutions with each other's and ERP system.
- Ensure full knowledge transfer to clients/support team (user training).
- Continually update technical knowledge and skills by investigate new technologies, attending in-house and external courses, reading manuals and accessing new applications.
- Contribute to the ongoing improvement of software practices within the business.
- Perform design and development of web based services and applications.
- Research, design and implement best practice solutions to new problems.
- Design and develop software systems, using scientific analysis and mathematical models.
- Developing Coding and debugging across a variety of product.
- Work closely with quality assurance team to ensure delivery of high quality and reliable web applications.
- Develop databases including queries, triggers and stored procedures.
- Resolve application defects and issues in a timely manner.
- Designing, prototyping and implementing graphical user interfaces.
- Coordinate with Business Analysts and Test Analysts to ensure that the developed application meets technical requirements and client needs.

Projects in Elsewedy Electric

1- RFID Android App :

RFID-Based Android Application Development
- Project Overview: Designed and developed an innovative Android application leveraging RFID (Radio Frequency Identification) technology to streamline and automate inventory management.
- Key Features:
  - Real-Time Item Tracking: Enabled real-time tracking and updating of inventory items using RFID tags, enhancing efficiency and accuracy.
  - User-Friendly Interface: Developed a clean, intuitive interface for easy navigation and operation by users of all technical levels.
  - Database Management: Integrated Oracle database to maintain a robust and reliable inventory database, ensuring efficient data storage and retrieval.
  - Notifications and Alerts: Integrated push notifications to alert users of low stock levels, expired items, and other critical inventory updates.
  - Reporting and Analytics: Added features for generating detailed reports and analytics on inventory movements and status.
  - Security: Ensured secure data transmission and storage with encryption and user authentication mechanisms.
- Achievements:
  - Successfully increased inventory management efficiency by reducing manual entry errors and processing time.
  - Enhanced user experience with an intuitive interface and seamless RFID integration.
  - Provided valuable insights through comprehensive reporting and analytics features.
- Technology and tools used : Android Studio - Java - Kotlin - Oracle DB - Gradle - SDK RFID SUNMI - Handheld SUNMI L2k RFID

2- Migration Database From MS SQL Server To Oracle Database.
- Project Overview: Successfully migrated database infrastructure from Microsoft SQL Server to Oracle Database, ensuring seamless data transition and compatibility.
- Key Responsibilities:
- Analyzed existing MS SQL Server database schema and data structures.
- Designed and implemented data migration strategies to Oracle Database, focusing on preserving data integrity and optimizing performance.
- Conducted thorough testing and validation to ensure accuracy and reliability of migrated data.
- Technologies and Tools Used: C#, ASP.NET, SQL, Oracle Database, Toad

3- Offer system (ASP Web Forms) :
- Project Overview: Refactored and enhanced an ASP.NET web forms application for the Offer System, integrating with Oracle Database and adding new features.
- Key Responsibilities:
  - Refactored existing codebase to improve performance, maintainability, and scalability.
  - Migrated database backend from MS SQL Server to Oracle Database, ensuring data consistency and efficiency.
  - Implemented new features based on business requirements, enhancing user experience and functionality.
- Technologies and Tools Used: C#, ASP.NET, SQL, Oracle Database, Toad

4- Logistics API Integration ASP.NET :
- Project Overview: Integrated logistics API into an ASP.NET web application (Offer System), leveraging Oracle Database procedures for seamless data handling.
- Key Responsibilities:
- Developed API integration modules to communicate with external logistics services.
- Utilized Oracle Database procedures to streamline data processing and retrieval within the application.
- Ensured secure and efficient data transfer between the web application and external logistics systems.
- Technologies and Tools Used: C#, ASP.NET, Oracle Database, Toad

5- Design and Implement (Item Coding Structure Project) :
- Project Overview: Designed and implemented a standardized item coding structure system integrated with Oracle Apex and Oracle Database, facilitating efficient inventory management across multiple international factories.
- Key Responsibilities:
- Developed and implemented a systematic coding structure for item identification and management.
- Integrated the system with affiliated factories in Sudan, Tanzania, Zambia, Indonesia, and Pakistan for unified inventory control.
- Utilized Oracle Apex for frontend development and Oracle Database for backend data storage and management.
- Technologies and Tools Used: Oracle Apex, Oracle Database, PL/SQL, Toad, HTML, CSS, JavaScript, Oracle E-Business Suite Integration.

6- Design and Implement (Quality Assurance System) :
- Project Overview: Designed and implemented a comprehensive quality assurance system using Oracle Apex and Oracle Database, incorporating BI Publisher for reporting and pdf.js for document handling.
- Key Responsibilities:
- Developed modules for quality control processes, integrating with Oracle Database and utilizing PL/SQL for data manipulation.
- Implemented BI Publisher for generating detailed quality assurance reports.
- Integrated pdf.js for viewing and handling PDF documents within the application.
- Technologies and Tools Used: Oracle Apex, Oracle Database, PL/SQL, BI Publisher, Toad, pdf.js, HTML, CSS, JavaScript, Oracle E-Business Suite Integration.

7- Create Custom (Reports)In Oracle Apex :
- Project Overview: Designed and developed custom reports in Oracle Apex to meet specific business requirements, providing valuable insights and analytics.
- Key Responsibilities:
- Created SQL queries and PL/SQL procedures to extract and manipulate data.
- Designed interactive and visually appealing reports using Oracle Apex.
- Ensured reports were optimized for performance and usability.
- Technologies and Tools Used: SQL, PL/SQL, Oracle Database, Oracle Apex

8- CPQ System :
- Project Overview: Developed a comprehensive CPQ (Configure, Price, Quote) system to streamline pricing processes from customer inquiry to sales closure, involving various departments including Sales Support, Technical Office, Planning, Logistics, Costs, and Sales. Generated customer-specific offer sheets to finalize sales transactions.
- Key Responsibilities:
- Designed and implemented modules for configuring products/services, pricing, and generating quotes.
- Integrated with existing systems to ensure seamless data flow across departments.
- Developed workflows to automate and optimize the entire pricing process.
- Implemented BI Publisher and pdf.js for generating and handling sales documents and reports.
- Technologies and Tools Used: Oracle Apex, Oracle Database, PL/SQL, BI Publisher, Toad, pdf.js, HTML, CSS, JavaScript, Oracle E-Business Suite Integration

9- ETA invoicing App :
- Project Overview: Updated and deployed an ETA invoicing application using Java 8, JavaFX, and Oracle Database, ensuring compatibility and functionality.
- Key Responsibilities:
  - Implemented updates and enhancements based on user feedback and business requirements.
  - Conducted testing and validation to ensure application reliability and performance.
  - Managed deployment process to ensure smooth transition and minimal downtime.
- Technologies and Tools Used: Java 8, JavaFX, Oracle Database, IntelliJ IDEA

10- Integrate with (SAP DB) From Oracle Database :
- Project Overview: Integrated Oracle Database with SAP DB (Sybase ASE 15.7.0.1300) using database links for seamless data transfer and application integration.
- Key Responsibilities:
- Established database links between Oracle Database and SAP DB for data synchronization.
- Developed applications and reports using Oracle Apex integrated with SAP for enhanced business operations.
- Ensured data consistency and integrity between Oracle and SAP systems.
- Technologies and Tools Used: Oracle Database, Sybase ASE 15.7.0.1300, Oracle Apex, Oracle E-Business Suite

11- Build APIs for Integrations with External Platforms using ORDS:
- Project Overview: Built APIs using Oracle REST Data Services (ORDS) and Oracle Procedure to integrate with external platforms, enhancing system interoperability and data exchange capabilities.
- Key Responsibilities:
  - Developed RESTful APIs to facilitate seamless communication with external systems.
  - Implemented Oracle Procedures to handle complex data processing and transactions.
  - Ensured API security, performance, and documentation standards were met.
- Technologies and Tools Used: ORDS, Oracle Database, PL/SQL

12- Trainer and Mentor for University Students - Internship:
- Project Overview: Served as a trainer and mentor for university students during internship programs, providing guidance and practical knowledge in software development and database management.
- Key Responsibilities:
  - Conducted training sessions on programming languages, database concepts, and software development best practices.
  - Mentored students in project planning, execution, and troubleshooting.
  - Evaluated student performance and provided constructive feedback for skills improvement.
- Skills Transferred: Programming, Database Management, Project Management

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Instructor
Udemy
2021- Present
udemy.com/user/mohamed-tamer-15
- The nature of my work is trainer for teach programming.

My Courses:
1- Kotlin for Beginners: From Zero to Hero [Arabic]
2- Android Kotlin Development: From Zero to Hero [Arabic]

Android Developer
Freelancer
2020 - Present
- The nature of my work is to create, design, and develop Apps.
- I got many experiences in this work.

Android Apps

1- Kotlin-First-Libs (library)
2- Di-Hilt
3- UniversalStringResources-jetPackCompose
4- MVVM-Template-Kotlin
5- DataStructures-Algorithms-Kotlin
6- CodeForces-Kotlin
7- Dagger-Kotlin
8- StopWatchComposeDesktop
9- StopWatchComposeMobileApp
10- SwipeButtonAnimation-jetPackCompose
11- LibraryAppUI-AndroidJetpackCompose
12- Staggred-Recyclerview-Android

13- ImageClassificationAndroidApp-WithTensorFlowLite
14- QR-BarcodeScanner-MLKit-Firebase
15- Fingerprint-BiometricAuthentication-Android
16- Compose-Curved-Scroll-library
17 - Canvas-jetPackCompose
18 - Quize
19- FoodApp-JetpackCompose
20 - Movies
21 - IToDo
22- Portfolio_App
23- Charts-App
24 - TV-Shows-MVVM

Customer Service - Call Center
Orange
2020 - 2021
- The nature of my work was answer and contact for customers who have problems or questions about a product or service.

Self-Study Programming
2019 - Present
- I started learning programming and coding on my own without a mentor.

Customer Service - Call Center
Etisalat
2018 - 2020
- The nature of my work was answer and contact for customers who have problems or questions about a product or service.

Technology Skills

- Java 8 & 17 , Kotlin , C/C++
- Python , Go, JavaScript
- Ktor, JavaFx , JetPack Compose
- C#, HTML, CSS, TypeScript, SQL, PL/SQL
- OOP
- Algorithm & Data Structures
- Design Patterns
- SOLID Principles
- Android App Development Native
- Oracle Database
- Oracle Apex
- OCI - Oracle Cloud Infrastructure

- Oracle Unified Method (OUM)
- Spring & Spring Boot MVC/Hibernate/JPA/AOP
- Docker
- Kubernetes
- Json
- Maven
- Gradle
- Jenkins
- CI/CD
- MySQL
- NodeJs

- Version Control – Git - GitHub
- MS SQL Server
- ASP.net (web forms)
- Tomcat
- Restful API
- Toad
- SAP - Sybase Database
- PostgreSQL
- Oracle Bi publisher
- Linux
- HTTP

Soft Skills

Adaptability - Communication - Compromise - Creative thinking - Dependability - Leadership - Listening - Work ethic - Teamwork - Positivity - Time management - Motivation - Problem-solving - Critical thinking - Conflict resolution - Negotiation.

Certificates

Link : https://bit.ly/3t7Cx5c
- Java 17 Masterclass
- Kubernetes
- Spring Boot 3, Spring 6 & Hibernate
- Docker for developers
- Introducing Maven
- Java EE: JavaServer Faces JSF
- ITIL® v4 Foundation

- M001 MongoDB Basics
- Oracle APEX Foundations
- Oracle Cloud Infrastructure
- Oracle Cloud Data Management
- Hacker Rank Java Basic Certificate
- freeCodeCamp JavaScript Algorithms and Data Structures
- Fundamentals of project management

- Effective Presentations Skills

Libraries

I have experience in creating libraries-Scripts and publishing them globally and open source On GitHub :
- Kotlin library JVM
- Compose Curved Scroll library
- Native Android Library

My YouTube Content

Channel : youtube.com/@MohamedTamer0
- Kotlin for Beginners
- Android Kotlin Development
- Oracle Database
- Build a REST API with Ktor - CURD API
- Libraries
- SOLID Principles
- JetPack Compose
- Projects With Android Studio Java And Kotlin
- Problem Solving and Tasks By Kotlin
- Firebase With Android Studio Kotlin