

Ahmed Ramadan Mohamed

Senior Java Backend Engineer

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PROFESSIONAL SUMMARY

Senior Java Backend Engineer with 8+ years of software engineering experience and 5+ years focused on Java and Spring Boot, specializing in secure, scalable backend systems for financial, telecom, and enterprise platforms. At Vodafone Egypt, contribute to Vodafone Cash, a business-critical platform serving approximately 25 million users, delivering Java 17 and Spring Boot microservices, REST APIs, Kafka-based event-driven flows, and enterprise integrations for digital donation, QR-code payment journeys, and Vodafone Shop. Hands-on across Spring Security, JWT/RBAC, Spring Data JPA, Hibernate, Apache Camel, Oracle SQL/PLSQL, JUnit, Mockito, Docker, CI/CD, AWS, Azure, production incident analysis, root-cause troubleshooting, code reviews, and practical system design.

TECHNICAL SKILLS

Java & Spring: Java SE 8, Java 17, Spring Boot, Spring Framework, Spring MVC, Spring Data JPA, Spring Security, Spring Cloud, Hibernate, Java EE, Maven

Backend Architecture: Microservices, REST APIs, Distributed Systems, System Design, Event-Driven Architecture, Apache Kafka, Apache Camel, API Integration, Enterprise Integration, Design Patterns, SOLID, Clean Code

Databases: Oracle Database 19c, Oracle SQL, PL/SQL, PostgreSQL, MySQL, SQL Server, RMAN, Database Design, Query Optimization, Database Administration

Security & Testing: JWT, RBAC, Authentication, Authorization, Input Validation, Secure API Development, JUnit, Mockito, Unit Testing, Integration Testing

Cloud & DevOps: AWS, Azure, Docker, Jenkins, CI/CD, Git, GitHub, Linux, Red Hat

Tools & Practices: Postman, Swagger/OpenAPI, Jira, Confluence, Agile, Scrum, SDLC, Code Review, Root Cause Analysis, Production Troubleshooting

Additional: C#, ASP.NET Core, Entity Framework Core, Windows Forms, Angular, JavaScript, HTML, CSS, XML, JSON, Oracle ADF

PROFESSIONAL EXPERIENCE

Vodafone Egypt | Senior Java Software Engineer | Aug 2024 - Present | Smart Village, Egypt

- Contribute to the Vodafone Cash platform serving approximately 25 million users, delivering business-critical backend capabilities for digital donation, QR-code payment journeys, and Vodafone Shop integration.
- Design and deliver Java 17 and Spring Boot microservices and REST APIs from technical design through production release.
- Build event-driven backend flows with Apache Kafka and integrate services with Siebel CRM, Oracle Database, Vodafone Shop, and internal enterprise platforms using Apache Camel where appropriate.
- Implement secure transaction and customer-journey logic using Spring Security, including validation, authentication, authorization, JWT-based security, role-based access control, and exception handling.
- Develop persistence and data-access components with Spring Data JPA and Hibernate, and optimize Oracle SQL and PL/SQL components for backend performance and reliability.
- Diagnose production incidents, perform root-cause analysis, and resolve issues across distributed services, REST APIs, event-driven flows, integrations, and database components.
- Develop unit and integration tests with JUnit and Mockito, review pull requests, and help developers resolve technical problems and improve code quality.
- Collaborate with cross-functional and DevOps teams to deliver changes through CI/CD pipelines into AWS and Azure environments managed by DevOps.

Core technologies: Java 17, Spring Boot, Microservices, REST APIs, Kafka, Spring Security, Spring Data JPA, Hibernate, Oracle SQL/PLSQL, Apache Camel, JUnit, Mockito, Maven, Git, Docker, Jenkins, CI/CD, AWS, Azure

M.T.S IT | Java Software Engineer | Jan 2021 - Aug 2024 | Egypt

- Promoted from Oracle Database Administrator to Java Software Engineer, combining backend development with strong database expertise across financial and telecommunications applications.
- Developed and supported Java and Spring Boot backend services and microservices for Network Inventory and Work-Order Management systems supporting financial transaction workflows and telecom operations.
- Built REST APIs and integrations with Oracle ADF and internal enterprise platforms for workflow automation, inventory tracking, reporting, and business operations.
- Implemented authentication, authorization, request validation, and application security using Spring Security.
- Designed and optimized Oracle Database objects, including tables, stored procedures, packages, triggers, and complex SQL/PLSQL queries.
- Developed unit and integration tests with JUnit and Mockito, contributed to Docker/Maven/Git CI/CD workflows, and supported production releases and technical troubleshooting.

Core technologies: Java, Spring Boot, Microservices, REST APIs, Spring Security, Oracle Database, Oracle SQL/PLSQL, Oracle ADF, JUnit, Mockito, Docker, Maven, Git, CI/CD

M.T.S IT | Oracle Database Administrator | Jan 2020 - Dec 2020 | Cairo, Egypt

- Administered Oracle Database 19c environments across development, testing, and production, including installation, configuration, patching, upgrades, health checks, monitoring, and production support.
- Tuned SQL and PL/SQL workloads using execution-plan analysis, indexing, statistics review, and schema optimization to improve performance and reliability.
- Implemented backup and recovery procedures with Oracle RMAN and managed users, roles, privileges, tablespaces, data files, schema permissions, and database security.
- Supported data migrations, production releases, and incidents, performing root-cause analysis across database, storage, connectivity, and application-integration layers.

Core technologies: Oracle Database 19c, Oracle SQL, PL/SQL, RMAN, SQL Performance Tuning, Backup & Recovery, Database Security, Data Migration, Production Support

Integrated Solutions | C# / ASP.NET Core Developer | Mar 2018 - Nov 2019

- Built and supported a client-facing electronic invoicing product using C# and ASP.NET Core, including backend modules and REST APIs for invoice processing, reporting, data management, and workflow automation.
- Shared responsibility for modernizing a legacy Windows Forms application into a web-based ASP.NET Core solution, covering implementation, migration, and production delivery.
- Implemented authentication and authorization and built data-access components with Entity Framework Core.
- Led/supporting database migration from SQL Server to Oracle Database 18c, including schema conversion, data migration, PL/SQL development, and SQL query optimization.
- Supported unit testing, CI/CD workflows, IIS hosting, production deployments, troubleshooting, and collaboration with business and technical stakeholders.

Core technologies: C#, ASP.NET Core, REST APIs, Entity Framework Core, Windows Forms, SQL Server, Oracle Database 18c, T-SQL, PL/SQL, Unit Testing, Git, IIS, CI/CD

SELECTED PROJECTS

E-commerce Platform | Jul 2024 - Present | [Review Code](#)

Spring Boot, PostgreSQL, Angular

- Built a full-stack e-commerce platform with a Spring Boot backend, PostgreSQL database, and Angular frontend; implemented backend business logic, persistent data management, and application-level security/performance improvements.

Human Resources Management System | May 2023 - Nov 2023 | [Review Code](#)

Spring Boot, Spring Security, PostgreSQL

- Developed a human resources management application with Spring Boot and Spring Security and integrated PostgreSQL for persistent data storage.

Medicine Stock Management System | Oct 2021 - Apr 2022 | [Review Code](#)

Spring Boot, Spring Security, MySQL

- Developed a medicine inventory management application using Spring Boot and Spring Security and designed the MySQL persistence model for inventory data.

EDUCATION

Master of Science in Computer Science and Software Engineering | 2022 - Present

Arab Academy for Science, Technology & Maritime Transport (AASTMT)

Bachelor of Science in Computer Science | 2019

Arab Academy for Science, Technology & Maritime Transport (AASTMT)

CERTIFICATIONS & TRAINING

- Oracle Certified Professional: Java SE 17 Developer - Oracle
- Oracle Certified Associate, Java SE 8 Programmer - Oracle
- Oracle SQL and PL/SQL Developer Fundamentals - Oracle
- Oracle Forms and Reports Developer - Oracle
- Java Collections - LinkedIn Learning
- Java Programming - HackerRank
- Software Development Life Cycle (SDLC) - Udemy