

SAMEH ADEL

SENIOR SOFTWARE ENGINEER

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Software Engineer with strong experience in backend development, microservices, and distributed systems, and growing expertise in AI-assisted and agentic software development. I build robust, scalable systems using Java and Spring Boot, and actively explore how AI tooling and spec-driven practices can improve engineering workflows and team productivity.

EDUCATION

Bachelor of Computer Engineering

Shoubra Faculty Of Engineering - Benha University

Sep 2015 - Aug 2020

EXPERIENCE

Senior Software Engineer at VOIS

MAY 2025 - Present

- Contributed to backend feature development and service maintenance within Vodafone's engineering ecosystem using Java and Spring Boot.
- Collaborated with cross-functional teams to design, implement, and refactor services to meet evolving architecture standards.
- Worked within an AI Enabler initiative, exploring and integrating AI-assisted tools into the development process to improve engineering workflows.
- Technology stack: Java, Spring Boot, Angular.

Software Engineer at Warba Bank

Apr 2024 - Apr 2025

- Built a new microservice from scratch to generate cashback for customers' spending.
- Refactored 4 services to meet new architecture requirements with a technology upgrade.
- Improved cashback service performance by 2x by applying database enhancements and code optimization techniques.
- Technology stack: Java 17, Spring boot, Hibernate, SQL Server, Kafka, Kubernetes and Redis.

Software Engineer at Fawry

Oct 2022 - Mar 2024

- Enhanced microservices communication performance by 8% through redesigning JWT implementation.
- Developed and implemented shared utilities and modules, reducing code duplication across services by approximately 3%.
- Served as a productivity catalyst, particularly in onboarding and mentoring new team members to accelerate their integration and effectiveness.
- Led the design and implementation of a new microservice from scratch, optimizing request and response handling.

Java Developer at Yeshtery

Jan 2022 - Sep 2022

- Uses Spring Boot to build server-side endpoints.
- Design and implement new software features.
- Refactor old code to satisfy the OO principles.
- Build and maintain integration tests for existing and new pieces of software.

TECHNICAL SKILLS

- **Languages**
 - Java
 - JavaScript
 - SQL
 - HTML & CSS
- **Software Design**
 - Object Oriented Design
 - SOLID Principles
 - Microservices
 - Design Patterns
 - System Analysis
- **Database**
 - SQL Server
 - PostgreSQL
 - Redis
 - JDBC Template
 - Hibernate
- **AI**
 - Spec-driven development
 - Agentic AI
 - Claude Code
- **Deployment & Testing**
 - Docker
 - GitLab
 - JUnit & Mockito
 - Maven & Gradle
- **Frameworks & Tools**
 - Camunda BPM
 - Git & GitLab
 - Kafka
 - Angular
 - Jira & Azure DevOps
- **Spring Ecosystem**
 - Spring
 - Spring Boot
 - Spring AI
 - Spring Data
- **Cloud Technologies**
 - Kubernetes
 - AWS

Projects

Payout *(Full-Stack)*

Payout system, used by companies to register their employees and their salaries. Later they can create payroll for their employees to send them their monthly salaries. Integrated with myFawry and other Fawry components to deliver the expected functionalities. The used technologies:

- Java, Spring, Spring Boot, Spring Security
- Oracle SQL & MongoDB for database
- Hibernate for ORM
- Redis for Caching and performance enhancements
- REST APIs
- Angular

Udacity Payment Gateway *(Full-Stack)*

A Payment gateway system in the Fawry ecosystem, which is used by Udacity, enables them to send the Egyptian mentors and staff their monthly salaries using Fawry's ecosystem and its integrated components. The used technologies:

- Java, Spring, Spring Boot, Spring Security
- Public / Private Key cryptography
- Oracle SQL & Redis DB
- Angular

Strengths

- Strong critical thinking and problem solving skills
- Fast learner and very passionate about coding
- Details-oriented thinking
- Excellent communication skills
- Ownership, Independence, and Responsibility skills
- Can-do attitude

Languages

- Arabic - Native
- English - Excellent Command