

# Emad Hussien

Cairo / Egypt | emadhussien.fcis@gmail.com | +201556966214 | [LinkedIn](#) | [GitHub.com](#)

## Software & Development Experience

---

**Software Engineer**, *IBC Solutions* – Cairo, Egypt

March 2025 – Present

Banking consultancy aims mainly at providing assistance to banks in implementing banking solutions.

- **Customization and Integration of Finastra FCC System:** Actively participated in the development and customization of the Finastra FCC system including development and configuration for key clients, including Al Rayan Bank (Qatar) and Sohar Bank (KSA).
- **Core Payment Feature Development:** Implemented and configured critical payment features, including Fawran instant payment functionality and a Money Request feature for inter-company funds within Al Rayan Bank (Qatar).
- **Corporate Banking Solutions:** Developed and integrated new corporate banking features such as Credit Card Settlement, Prepaid Card Top-Up, and a Company Payroll system utilizing CSV file uploads.
- **Bill Payment Customization and Integration:** Customized the Bill Payment module to integrate with major Qatari service providers (Ooredoo, Kahramaa, and General Tax Authority), enabling corporate bill payments. Currently working on integration with Sadad for bills payment for Sohar Bank (KSA).
- **Alert and Auditing Module Enhancement:** Enhanced the Alert module to allow bank customers and employees to create filtered, personalized alerts with custom email templates. Customized the existing module for Auditing of all the new introduced Finastra FCC Customization features to ensure transaction traceability and compliance.
- **Team Collaboration and Tools:** Utilized GitLab for version control and collaborative development within a 7-member team, and engaged in technical discussions with bank developers.
- **Tools Used:** Java, Spring Boot, Oracle, JDBC, SOAP API, RESTful APIs, Typescript, Angular, XML,XSL,JavaScript,GitLab.

**Library Management System** (Personal Project)

Nov 2024 – Jan 2025

- Built secure, scalable APIs with JWT, Spring Security, and Spring Cache for book and user management.
- Used AOP for logging and wrote unit tests with Mockito.
- Tools Used: Java, Spring Boot, JPA, Hibernate, RESTful APIs, Spring Security, AOP, Spring Cache, H2, Mockito

**Workout Tracker** (Personal Project)

Sep 2024 – Oct 2024

- Designed relational schemas and secured endpoints using JWT.
- Enabled personalized tracking and reporting via Spring Boot and MySQL.
- Tools Used: Java, Spring Boot, MySQL, JPA, Hibernate, RESTful APIs, JWT.

**Software Engineer Intern**, *Klivvr* – Cairo, Egypt

Aug 2024 – Sep 2024

Klivvr is a fintech Egyptian company subsidiary of Orascom Financial Holding (OFH)

- Implemented MongoDB aggregation, filtering, and pagination to reduce the Need to load large datasets at once.
- Reduced backend traffic and API complexity by developing a flexible PATCH API that consolidates multiple task updates into a single request.
- Integrated Firebase Storage, Multer, and validation middleware for file uploads.
- Implemented real-time task updates and online user tracking using Socket.IO.

### [Food ordering system](#) (Personal Project)

Jun 2024 – Aug 2024

- Designed scalable APIs for restaurant management, order processing, and customer reviews.
- Integrated secure payment processing with Stripe and authentication via Keycloak.
- Ensured system reliability through validation, exception handling, and unit testing.
- Tools Used: Java, Spring Boot, MySQL, Stripe, Keycloak, Mockito.

### **Freelance Software Engineer**, *Remote* – Cairo, Egypt

Jan 2024 – Apr 2024

- Refactored legacy codebases for improved performance and stability.
- Integrated Firebase Google login, Paymob for payments, and enabled full localization.
- Focused on modular design using reusable components for scalable frontend architecture

### [E-commerce application](#) (Personal Project)

Aug 2023 – Dec 2023

[github.com/e-commerce](https://github.com/e-commerce)

- Implemented secure authentication and authorization mechanisms using JWT, including the use of refresh tokens for enhanced security.
- Utilized MongoDB as the database with Mongoose schema for data modeling.
- Integrated Stripe API for payment processing, both on the backend and frontend.
- Tools Used: Node.js, Express.js, MongoDB, Stripe, JWT.

## Education

---

**University of Ain Shams**, bachelor degree in Computer Science (Cairo / Egypt)

Jul 2023

## Technologies

---

**Languages:** Java, JavaScript, SQL

**Backend:** Spring Boot, Hibernate, REST/SOAP APIs, Node.js, Express.js

**Frontend:** Angular, React.js, Redux

**Databases:** MySQL, MongoDB, H2, Oracle

**Tools:** IBM MQ, Firebase, Stripe, Keycloak, Git

**Other:** OOP, JWT, Spring Security, AOP, Unit Testing

## Courses & Certificates

---

[Relational Databases With SQL](#)

[CS50: Introduction to Computer Science](#)

[Responsive Web Design](#)

[NoSQL Databases Using MongoDB](#)