

Emad Hussien

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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.

- Working on customization and integration of Finastra banking applications for trade finance and cash services.
- Building and maintaining backend components using Java, Spring Boot, SOAP/REST APIs, and IBM MQ Messaging.
- Developing UI components with Angular, ensuring alignment with enterprise workflows.
- Tools Used: Java, Spring Boot, Oracle, JDBC, SOAP API, RESTful APIs, Typescript, Angular, IBM MQ Messaging.

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

- 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](#)