

# Emad Hussien

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## Experience

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

Aug 2024 – Oct 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.

## Education

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

June 2023

## Projects

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### [Library Management System](#)

- Developed RESTful APIs for book, patron, and borrowing management with JWT authentication and transaction handling.
- Designed database schemas to handle borrowing limits and track available copies, ensuring robust error handling.
- Integrated AOP for cross-cutting concerns and implemented caching to improve performance.
- Tools Used: Java, Spring Boot, JPA, Hibernate, RESTful APIs, Spring Security, AOP, Spring Cache, H2, Mockito

### [Workout Tracker](#)

- Designed relational schemas for user authentication, exercises, and workout plans to ensure scalability.
- Developed seeding logic for exercise data categorized by type and muscle group.
- Secured APIs with JWT authentication, enabling user-specific operations and progress reports.
- Tools Used: Java, Spring Boot, MySQL, JPA, Hibernate, RESTful APIs, JWT.

### [Food ordering system](#)

- 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.

## Technologies

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**Languages:** Java, SQL, JavaScript

**Technologies:** Node.js, Express.js, Typescript, MySQL, MongoDB, Firebase, REST API, Socket.IO

**Frameworks/Libraries:** Spring Boot, Hibernate, JPA, Spring Security, Spring Cache, AOP, React.js, Redux, Tailwind

**Other:** Object-Oriented Design, H2 Database

## Courses & Certificates

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[Relational Databases With SQL](#)

[NoSQL Databases Using MongoDB](#)

[CS50: Introduction to Computer Science](#)

[Responsive Web Design](#)