# Mohamed Yousry Abouelhoda  Backend Software Engineer

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## Professional Experience

**Senior Software Engineer,** *HandleT* ⬈  06/2025 – Present
Remote
- Developed RESTful APIs using Spring Boot, Hibernate, and PostgreSQL for e-commerce applications.
- Implemented JWT-based authentication, role-based authorization, and global exception handling.
- Designed relational database schemas and optimized queries using JPA & Hibernate.
- Deployed applications using Docker and managed version control using Git/GitHub.

**Full Stack Engineer,** *Aboghalia Consulting Office* ⬈  05/2022 – 10/2024
Mecca, KSA
- Developed a real-time transformer monitoring backend using Node.js, WebSockets, and MySQL to process 10,000+ sensor data points daily.
- Built server-side file management system and real-time chat application.
- Designed and deployed backend APIs and database schemas.
- Collaborated using Git-based workflows and containerized applications using Docker.

**Mobile Software Engineer,** *El Sewedy Electrometer Group* ⬈  11/2021 – 04/2022
Giza, Egypt
- Developed a lightweight Swift library using Core NFC for secure smart card authentication and real-time transaction processing.
- Designed a modular architecture enabling balance verification and recharge functionality for multi-utility metering systems.
- Integrated seamlessly with key ecosystem partners including TMG (Talaat Moustafa Group), Petrotrade, and Fawry, supporting scalable deployment.

**Mobile Software Engineer Intern,** *Alamat.tech* ⬈  06/2019 – 01/2020
Cairo, Egypt
- Re-Architected the Aladarbi Shipping app to meet Apple's App Store guidelines, resolving rejection issues and enabling successful publishing.
- Collaborated with UI/UX and Backend teams to implement new features, resolve bugs, and maintain alignment through Agile ceremonies.
- Managed source code using Git, ensuring clean version control and collaboration via GitHub and Bitbucket.

## Skills

**Backend:** Java, JavaScript, TypeScript, Node.js, Express.js, Spring Boot, WebSockets, RESTful APIs, Spring Security, Spring Data JPA, Hibernate, Microservices, JUnit

**Database:** PostgreSQL, MySQL, Oracle, Redis, No-SQL, SQL

**Tools & DevOps:** Git, GitHub, Docker, Bash, CI/CD, GitHub Actions

**Software Engineering:** Algorithmic Problem Solving & Analysis, Design Patterns, SOLID Principles, OOP

## Education

**Postgraduate Diploma in Computer Science,** *Cairo University*  2023 – Present

**Bachelor's Degree in Computer Science,** *6th of October University*  2013 – 02/2019

## Languages

**Arabic** — Native/Bilingual  **English** — Proficient