

Hassan Adel

hassanadel71964@gmail.com | +(20) 01153728793 |WhatsApp 01225539716| [GitHub](#) | [LinkedIn](#)

Education & Certifications

B.S. in Mechatronics Engineering, Ain shams university
2022

Sep 2017 - Jun

Graduation Project: 5-DOF Manipulator with Object Detection Camera (Excellent)

PST coach academy Data structures and algorithm

Jul 2019 - Oct 2019

Professional Experience

IT Specialist (September 2024 – Present)

Intelligent Way for Integrated Technology Services

- Managed and maintained network infrastructure, including routers, switches, and firewalls.
- Administered server environments , ensuring uptime, security, and performance.
- Performed troubleshooting and resolved network-related issues to ensure seamless connectivity.
- Monitored server health, backups, and overall network performance to ensure smooth operations.

Backend Development

- Acquired strong backend development skills focusing on building scalable, secure, and efficient applications using Spring Boot and Java.
- Gained practical experience in designing RESTful APIs, integrating databases, and developing business logic layers.
- Worked on:
 - Spring Boot for building scalable backend services and APIs.
 - Database integration using SQL and NoSQL databases.
 - Managing data persistence and designing data models with JPA and Hibernate.
 - Authentication and authorization techniques using JWT.
 - Dependency Injection, AOP, and other core Spring concepts for efficient backend architecture.
- Participated in hands-on projects that enhanced:
 - Problem-solving and debugging skills.
 - Code optimization and testing using tools like JUnit.
 - Teamwork and collaboration in an agile environment.

Problem Solving, Data structures and algorithms

PST Coach Academy, focusing on:

- Problem-solving methodologies
- Data structures
- Algorithms
- Debugging techniques
- Troubleshooting skills

Technical Skills

- Programming Languages: Java (Primary), C/C++, Python (Familiar)
- Backend Development: Spring Boot, REST API design, Business Logic, Multi-threading
- Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Firebase)
- Frameworks: Spring Boot, Spring Data JPA, Spring Security, AOP
- Version Control: Git, GitHub
- Testing: JUnit
- Build Tools: Maven, Gradle

Military status

- **Done (December 2023).**

Awards and Competitions.

Competitive programming bootcamp final contest 1st place (2021): 6 months-long boot camp led by Coach academy competitive programming coaches.

Projects

5-DOF Manipulator with Object Detection Camera (Graduation project):

- 5-degree-of-freedom (5-DOF) manipulator integrated with an object detection camera. This project required adept utilization of C and Python programming languages, incorporating object-oriented programming (OOP) principles to ensure a modular and scalable architecture.
- Led a multidisciplinary team to secure first place in the Manipulator Robotics Contest among all participating teams.
- Achieved a perfect score in the competition's performance metrics, showcasing the effectiveness and reliability of the manipulator robot.

Book Shop Inventory System

- *Developed a CRUD-based application to manage books in a shop (Add, Edit, Delete, View).*
- *Built with **Spring Boot** and **MySQL** for data storage, handling book details like title, author, genre, and price.*
- *Implemented user authentication and role-based access with **JWT** for secure operations.*
- *Created RESTful APIs to manage inventory, track stock levels, and process orders.*

Employee Management System

- *Developed a CRUD-based web application to manage employee records (Add, Edit, Delete, View).*
- *Built with **Spring Boot** and connected to a **MySQL** database for storing employee data.*
- *Implemented user authentication with **JWT** and role-based access control.*
- *Focused on building RESTful APIs to handle employee details such as name, position, department, and salary.*
- *Deployed the system to a cloud platform for scalability and secure access.*