

Mustafa A. Ahmed

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Software Engineer || Java Developer || Web Developer || Back-end Developer

Skills

- Java | C++ | Java Servlet | Spring | Spring Boot | JDBC | Spring Security | JWT | Spring Data JPA | Production-Grade Database | Spring Cloud Stream | Apache Kafka | Git | GitHub | HTML | CSS | Bootstrap | JavaScript | MySQL | MongoDB | NoSQL
- Agile | Linux | OOP | Data Structures | Algorithms | SOLID Principles | Design Patterns
- Problem-solving | English, Arabic – *All professional proficiency or above*

Experience

Member in the Scientific Committee

HUN Scientific Committee

Hurghada, RS , EG

- Worked as a member in Scientific Committee in Computers and AI Collage in South Valley University.

Consistent and Problem Solver

ECPC Community

Hurghada, RS , EG

- Guiding individuals gearing up for coding contests and aiding over three-quarters of college students in readying for coding competitions.

Education

Bachelor in Computer Science and AI

Faculty of Computers and AI in Hurghada

Hurghada, BA, EG

10/2021 - 07/2025

- South Valley University
- **Computer Science Department**
- **3.67 GPA (Excellent)**

Projects

• **Muse Do | To Do List Application (Java):**

Boost your productivity with Muse Do, a user-friendly to-do list application built in Java.

Features:

- **Effortless Task Management:** Effortlessly add new tasks to your list.
- **Mark it Done:** Mark completed tasks as finished .
- **Stay Organized:** View all your tasks in a convenient list.
- **Save and Exit:** Peace of mind knowing your tasks are securely saved in a text file, even after you exit the application.

Technology Stack:

- Native JAVA | JAVA FX | OOP | Data Structure

Project Link: [Github link](#)

• **Auxo | E-Commerce Platform: Scalable and Efficient Shopping Experience (Spring & Spring Boot)**

Introducing a robust E-commerce solution architected with Spring and Spring Boot for high scalability and maintainability. This platform leverages microservices, a modern approach for building complex applications, to ensure efficient handling of core functionalities.

Microservices Breakdown:

- **User Authentication Service (Spring Security, JWT):** Handles user registration, login, and authorization.
- **Product Service (Spring Data JPA, Production-Grade Database):** Manages product information including details, inventory, and images.
- **Order Service (Spring Cloud Stream, Apache Kafka):** Processes order creation, payment integration, and order fulfillment.

Technology Stack:

- Spring | Spring Boot | Spring Security | Spring Data JPA | Production-Grade Database (MySQL)| Spring Cloud Stream |Apache Kafka

Project Link: [Github link](#)

• **Web Viewer Mobile App (JAVA):**

Features:

- lets you view websites directly within the app, like a simple browser for one site.

Benefits:

- It offers a faster and more focused way to access a favorite website on your phone.

Technology Stack:

- Android Studio | JAVA

Project Link: [Github link](#)

• **Gold and Silver Currencies API (JAVA):**

This Java project provides a user-friendly interface to retrieve real-time gold and silver prices in various currencies using an external API.

Features:

- **User Input:** Prompts the user to enter a valid currency symbol .
- **API Integration:** Connects to a reputable gold and silver prices API to fetch current spot prices.
- **Output:** Displays the gold and silver prices formatted appropriately for the chosen currency (e.g., including decimals, currency symbols).
- **Error Handling:** Validates user input for supported currency symbols and gracefully handles potential API errors or network issues.

Benefits:

- **Convenient Price Lookups:** Allows users to easily access up-to-date gold and silver prices in their preferred currency.

Technology Stack:

- JAVA | Eclipse IDE | API

• Planning and Mapping Robot:

This project details the creation of a **DIY mapping robot** constructed with an Arduino Uno, ideal for exploring and understanding indoor environments.

Mapping on the Move:

- As the robot navigates using its DC motors, it continuously gathers data from the ultrasonic sensors. This data is processed by the Arduino Uno to create a **basic 2D map** of the explored space, focusing on identifying potential obstacles.

Benefits:

- **Identify Obstacles:** Visualize your indoor environment with a robot-generated map, highlighting potential obstacles for safe navigation.

Technology Stack:

- Arduino IDE | C++

Others

- **Consistent** certificate in **ECPC 2022**.
- **Member** certificate in **the Scientific Committee of Computers and AI Collage in Hurghada**.