

SADAF KOONDHAR

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| [Portfolio](#)

| [LinkedIn](#)

| [GitHub](#)

SUMMARY

Passionate Java Developer with hands-on experience in designing and developing RESTful APIs, database management, and backend solutions using Spring Boot and Hibernate. Skilled in authentication, role-based access control, and performance optimization. Enthusiastic about solving real-world challenges through technology.

TECHNICAL SKILLS

Technologies and Frameworks

Java, Object Oriented Programming, Data Structures & Algorithms, Collection framework, JDBC, Spring Boot, Hibernate, JPA, REST API, MYSQL, PostgreSQL, Oracle, SQL Server, JavaScript, HTML, CSS.

Tools: VSCode, IntelliJ IDEA, Postman, Swagger, Ngrok, Git, GitHub, GitLab, GitHub Actions,vercel.

EXPERIENCE

Java Developer | Ornesol Pvt Ltd

Feb 2024 Present

- Developed and maintained RESTful APIs using Spring Boot, Hibernate, JPA, and MySQL for student management, attendance tracking, exams, and fee processing.
- Implemented secure authentication & role-based access control using Spring Security & JWT. Optimized SQL queries for efficient data retrieval and reporting to enhance performance. Integrated APIs with frontend applications and third-party services. Assisted in debugging and troubleshooting during testing and deployment.

PROJECTS

Real-time Pothole Detection with YOLO-v7 for Autonomous Vehicles (FYP)

Our project aims to enhance road safety by providing real-time and accurate pothole detection, enabling autonomous vehicles to navigate more efficiently and securely.

Project Objectives:

- Detect potholes in **images and videos** using deep learning.
- Count potholes from **captured images and video feeds**.
- Estimate the **repair cost** of detected potholes.
- Automatically generate an **Excel report** for cost estimation.

The **Real-time Pothole Detection System** addresses key challenges such as **road safety management, accident prevention, infrastructure maintenance, and economic impact** due to poor road conditions.

Responsibilities:

- Conducted meetings with supervisors and faculty to discuss new feature requirements, enhancements, and system changes.
- Performed bug fixing and system improvements.
- Technologies & Tools:** Convolutional Neural Network (CNN), You Only Look Once (YOLO), Colab notebook, Roboflow etc.
- Live URL: [Code here](#)

Ornesol Pvt Ltd – Edutech (Educational Management System)

- Developed and maintained RESTful APIs using **Spring Boot, Hibernate, JPA, and MySQL/PostgreSQL** for student management, attendance tracking, exams, and fee processing.
- Implemented **secure authentication & role-based access control** using **Spring Security & JWT**.
- Optimized **SQL queries** for efficient data retrieval and reporting to enhance performance.
- Integrated APIs with frontend applications and third-party services.
- Assisted in debugging and troubleshooting during **testing and deployment**.
- Live Demo:** [Click here](#) | **Username:** admin | **Password:** admin
- Technologies & Tools:** Java, Spring Boot, Hibernate, JPA, MySQL/PostgreSQL, Spring Security, JWT, Apache Tomcat, Postman, IntelliJ IDEA, Git.

Ornesol Pvt Ltd – Chota Champ (E-commerce Platform for Baby Products)

- Designed and developed **RESTful APIs** for product catalog, categories, and order management.
- Implemented **secure payment gateway integration** and **user authentication** using JWT.
- Optimized **database structure** for handling large-scale product inventories.
- Fixed **critical bugs & performance issues**, ensuring smooth shopping experience.
- Live Demo:** [Click here](#)
- Technologies & Tools:** Java, Spring Boot, Hibernate, JPA, MySQL/PostgreSQL, Spring Security, JWT, Apache Tomcat, Postman, IntelliJ IDEA, Git.

Quiz desktop application

- Created a Quiz Desktop Application using Java and Java swing
- The target of our Application is to Test your knowledge and challenge your understanding with a user- friendly Java desktop quiz application, and Choose from a wide range of subjects and question types, covering everything from academics to general knowledge.
- Technologies & Tools:** java collections, java swing, multithreading

EDUCATION

BS Information Technology (2020 – 2024)

University of Sindh, Pakistan

ACHIEVEMENTS

NGIRI Funded Project: Real-time Pothole Detection with YOLO-v7 approved for NGIRI funding!