

Sayed Kassem

Computer Engineer

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Enthusiastic and self-motivated Software Developer. Driven Individual to translate business requirements into actionable results.

Experience

IT - Data Analyst

- performed advanced Excel functionalities such as pivot tables, VLOOKUP, and complex formulas for data manipulation and analysis.
- Experienced in crafting efficient SQL queries to interact with database for data retrieval and management.
- Adept at data collection and entry using NSL software, with a keen eye for detail in maintaining data integrity.

Data Engineer - Intern

- Part of a data scientists and data engineers team, worked on Fraud Detection System
- Handled data collection tasks, quality checks, statistical transformations part of the ETL
- Tools used were: Knime Analytics Platform, SQL

Freelance

- Web Design using Elementor and Wordpress (lebanesefestival.ca)
- Code Refactoring for a ML model deployed using Flask back end (EuroPrime.fr)

Projects

Task Scheduler API - Java, SpringBoot, Postgre, Redis, Docker

- Developed an advanced Real Time Notification System using modern technologies like Java 21, Spring Boot, Redis, RabbitMQ, Docker, and PostgreSQL.
- Implemented real-time notifications using RabbitMQ in a pub/sub model.
- Designed a scalable architecture using Docker containers and Kubernetes orchestration.
- Integrated Redis for caching and notification state management.
- Developed a secure API with authentication, rate-limiting, and secure secrets management.
- Automated testing (unit, integration, e2e) using JUnit

Todo Application – Java, Spring Boot, PostgreSQL

Leveraged Docker for containerization and PostgreSQL for persistent storage. Integrated pagination and CRUD operations, and ensured test coverage with JUnit and Mockito.

- Created a REST API supporting full CRUD functionality for todo items, improving usability for task management.
- Utilized Docker for streamlined deployment and testing in consistent environments.
- Used Spring Boot for efficient setup, dependency management, and microservices readiness.
- Implemented unit testing for all service logic
- [Repo](#)

Education

- Masters of Science in Computer and Communication Engineering - LIU 2020-2022
 - GPA: 2.94/4.0
- Bachelor of Science in Computer and Communication Engineering - LIU 2017-2020
 - GPA: 3.7/4.0

Certificate

- HackrRank SQL
March 2024 - [credentials](#) beginner, [credentials](#) intermediate, [credentials](#) advanced
- Basic Proficiency in Knime Analytics Platform L1
Issued By Knime - [credentials](#)

Skills

- ReactJs
- Excel
- SQL
- Docker
- Data Structure & Algorithms
- Git / Github
- Data Science
- Java
- Spring
- HTML, CSS, Javascript