

Batoul ALHARIRI

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EDUCATION

JUST | Jordan University of Science and Technology

One of the top engineering schools in the Middle East with a global recognition and accreditation

Jordan

Software Engineering

2020-Present

- Valedictorian and ranked first in the SE class with a GPA of: **4.08 / 4.2**
- Anticipated to graduate in July 2024 with availability for internships in the upcoming summer (Jun-Sep)
- Courses spanning different areas including Data structure; Analysis and design of algorithms; C++ Programming; Java Programming; Web design (HTML, JavaScript, CSS); fundamentals of databases; software modeling; etc.

High School Diploma

Saudi Arabia

- GPA: 100/100 (top locally and across the KSA)

2017 - 2020

INTERNSHIP Experience

Software Engineering Internship

Jordan

ATYPON | Multinational Provider of advanced publishing platform technology solutions

March 2023 – August 2023

- I designed and implemented a decentralized NoSQL database cluster simulation in Java to compare its functionalities with traditional relational databases. Responsibilities included system design, Java development using Docker containers, and data persistence with JSON objects. Implemented query handling, indexing, data consistency, and load balancing techniques, along with optimistic locking for concurrent write operations. Additionally, I developed a demonstration application to validate system functionality. This project enhanced my skills in Java programming, Docker containerization, distributed systems design, NoSQL concepts, JSON manipulation, and concurrency control, providing valuable insights into decentralized database clusters and improving my proficiency in Java programming, distributed systems, and data management. The project successfully created a decentralized NoSQL database cluster simulation, showcasing benefits such as scalability, fault tolerance, and performance improvement. The demonstration application validated the system's capabilities in managing concurrent operations and ensuring data consistency, equipping me with skills applicable to the company's projects involving distributed data management and system optimization, thus contributing to operational efficiency.

ACADEMIC EXPERIENCE

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2021 - 2023

Advanced HR Management System

- The Advanced HR Management System features an Admin section for managing company info, leave, and payroll, and an Employee section for accessing leave, salary, and submitting grievances/resignations. This system results in enhanced employee satisfaction with streamlined leave and payroll processes, and improved communication and issue resolution with dedicated grievance submission.

School Bus Kids Game

- Developed a mobile game program in C# where players drive a school bus, completing tasks and avoiding obstacles en route to the school, and implemented a login system for player accounts, displaying statistics like duration, score, and games played. This resulted in an engaging gameplay experience for children and improved retention with the account login feature.

Healthy Lifestyle Application

- Created an app to enhance lifestyle by promoting healthy habits in physical activity, diet, and healthcare, with features including tracking exercise, finding healthy food options, and managing healthcare appointments. This resulted in encouraging healthier lifestyle choices through tracking and management tools, improving user well-being through easy access to health-related information, and increasing awareness and adherence to fitness and dietary goals.

Painter Program

- Developed a "Painter" program in C# Windows Form Application enabling users to draw and edit shapes using tools like free-draw, erase, reshape, and diverse color options. This resulted in empowering users with creative tools for digital drawing and editing, enhancing the user experience with an intuitive interface and diverse toolset, and improving productivity and creativity for users.

Client Server Architecture

- Implemented a client-server architecture for distributed database systems, enabling multiple clients to efficiently access and retrieve data from a centralized server. This resulted in improved system efficiency through centralized data management, enhanced scalability for accommodating a growing user base, and increased reliability and accessibility of data.

Graduation Project

Design and Development of a Mental Health Web

- For my graduation project, I developed a mental health web application using Java, HTML, CSS, and JavaScript, with Spring Boot and microservices architecture, containerized with Docker. The app facilitates appointments, offers mental health tests, and provides educational blogs. Users can easily manage appointments, take tests, and access valuable resources. Email reminders are integrated for better communication. The project significantly improved access to mental health services, streamlined appointment processes, and enhanced user experience. It efficiently manages data using Spring Boot and microservices, resulting in improved scalability and performance. The application serves as a valuable resource, addressing the growing need for accessible mental health support and information.

Accomplishments

- **IEEEXtreme16.0 2022 and 2023** (24-hour problem-solving competition) - with certificate
- **JCPCQualification2021** (Ranked 37th among 100+ participant teams in a problem-solving competition) - with certificate
- **META HackerCup 2022** (Successfully passed 1st and 2nd rounds of a problem-solving competition) - with certificate

EXTRACURRICULAR POSITIONS

Ambassador of Tele-education and virtual learning

Jordan

JUST | Jordan University of Science and Technology

2021 – Present

- Assisted in designing several initiatives to support virtual learning platform in the university

Languages: Arabic (Native), English (Professional Fluency)