WALID KOUADIK

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BACK-END JAVA DEVELOPER

Java back-end developer with around one year of experience crafting and maintaining robust back-end web applications using Spring Boot and Spring for e-commerce and educational domains. Proficient in implementing and sustaining effective solutions for web application development using Java, Spring, JavaScript, GraphQL, REST API, MySQL. Looking for a role to expand technical skills and deepen current knowledge.

Design Patterns • Object Oriented Programming • Aspect-Oriented Programming (AOP)
Dependency Injections • Inversion of Control • Numerical Analysis

Languages: Java, Python
Web: HTML5, CSS3, Java script
Web Services: Rest API, GraphQL, SOAP
Web/App Servers: Tomcat, Nginx
Frameworks: Spring, Spring Boot, Express JS, React
Databases: MySQL, MongoDB, PostgreSQL
Design Patterns: Singleton, Factory, Façade, Builder, MVC, MVVC
SDLC: Agile, Waterfall
Tools: Maven, Eclipse, Gradle, Webpack
Platforms: Windows, Mac
Application/Software: Power BI

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

ULTECH ALGERIA, Medea, Algeria ● 10/2021 – 7/2022
Provider of software solution and web applications

Web Developer / Software Engineer
EdTech domain

- Built database schemas using MongoDB; allowing scalability and efficient data storage and retrieval.
- Optimized SQL queries and store procedures using MySQL, decreasing data rendering time or page load time by 40%.
- Refactored many parts of the application using Spring Boot under the standard clean code principles as defined by the organization leading to uniform code structure across the application.
- Implemented Aspect Oriented Programming (spring AOP) improving the code quality and removed 100% of run-time exception.
- Developed various operational software applications for education industry including registering new students, keep track of their records, and automating the grading process.
- Contributed to the Agile/Scrum ceremonies including standup and retrospective to deliver the product within the given timeframe.

Technologies Used: *Java, Spring Boot, Spring, RESTful, MySQL, MongoDB, SpringAOP, Maven, Spring Data, JPA, Git, GitHub.*

INDEPENDENT CONRACTOR EXPERIENCE

Yahia Fares University of Medea, Medea, Algeria ● 01/2021 – 04/2022
Software Developer
Python Problem Solving package in numerical analysis.

- Designed Python solutions for numerical analysis challenges, carefully packaged for easy application by students in scientific fields.
- Created a user-friendly Python toolkit, simplifying numerical analysis for students in scientific majors.
- Developed a set of mathematical solutions for numerical problems, tailored to empower students in scientific disciplines.

Technologies Used: *Python, Numerical analysis, NumPy, SciPy, Jupyter Notebook.*

ACADEMIC PROJECTS

Maharishi International University (2023) Inspection System: The New York State Department of Health (NYSDOH) plans to create a specialized Inspection System to improve the efficiency and accuracy of healthcare facility inspections in the state. This system will build upon the existing base system and focus solely on inspection-related tasks. The goal is to simplify the inspection process, allowing inspectors to thoroughly assess healthcare facilities' compliance with regulations and standards, ultimately enhancing patient care quality and public health. Utilized Spring Boot, React JS

Maharishi International University (2023) Library management system: Developing a comprehensive Library Management System to efficiently handle and streamline all library services. Leveraging the power of Swing and Java technologies, the system provided an intuitive and user-friendly interface for librarians and patrons. Utilized Java, Swing.

Maharishi International University (2023) Online Bidding system: Designed and developed a dynamic bidding web system, providing users with an engaging platform for participating in auctions and competitive bidding. Implemented robust features for bid management, real-time updates, and secure transaction processing. The system facilitated a seamless and competitive bidding environment, enhancing user engagement and ensuring a transparent and efficient bidding process. Utilized Java, Spring Boot, React JS.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2025)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Architecture, Enterprise Architecture, Software Engineering.

Master's degree in Theoretical Physics
University of Science and Technology Houari Boumediene, Algiers, Algeria (2020)

Bachelor's degree in Physics
University of Science and Technology Houari Boumediene, Algiers, Algeria (2015)