Karim Merhi

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EXPERIENCE

Junior Software Engineer
Ignite Group (Contract)

Sep. 2024 — Present
Dubai(On-site), UAE

- Refactored both the frontend and backend of the MAF (Majid Al Futtaim) Energy Management App, introducing database indexing and pagination to improve system performance by 30%.
- Developed a custom NxWitness plugin to monitor security and fire alarm ELV systems, utilizing a .NET API wrapper to manage REST API calls and bypass CORS for an office in Burj Khalifa.
- Enhanced software security by designing and implementing a node-lock licensing algorithm, which is now used as a trademark feature across 10+ applications, preventing unauthorized usage and access.
- Automated and simplified utility billing operations by engineering a billing system integrated with the Honeywell BMS, enabling accurate meter-based billing for chilled water, hot water, electricity, and gas; reduced manual workload by decreasing technician visits and finance audits from monthly to quarterly.

Backend Developer Intern
Monty Mobiles

July 2024 – Sep. 2024
Beirut, LB

- Refactored legacy Apis into modern Java Spring Boot code, applying Core Java naming conventions, and OOP best practices,and testing on test and staging servers with JUnit, reducing compile time by 5 seconds.
- Implemented two-factor authentication leveraging **Spring Security**, OTP and JWT for robust authentication and authorization, decreasing the penetration testing report findings by 15%.
- Contributed to the development of the VAS-RBT service utilizing Log4j2 for server logging to support both devops and engineering teams to maintain 98.5% uptime.

Backend Developer Intern
Mebex Consultants

May 2024 – July 2024
Beirut, LB

- Collaborated with frontend and QA teams, to developed APIs aligned with the UI flow, providing Swagger documentation, while managing API transactions to ensure data integrity across services.
- Integrated RabbitMQ to optimize the back-end of an internal kitchen access tool, reducing server load and cutting costs by $25 per floor.

Teaching Assistant
Rafik Hariri University

Aug. 2023 – April 2024
Meshref, LB

- Assisted three professors with grading coursework for over 200 students, resulting in a 20% faster notification of results.
- Conducted weekly tutorial sessions for over 50 students, leading to a 15% average improvement in their scores, by introducing technologies outside the course syllabus to enhance their projects.

Business Analyst Intern
Dubai Development Authority

May 2023 – July 2023
Dubai, UAE

- Automated cloud server migration scripts in Python, completing delivery 5 weeks ahead of schedule.
- Ensured compliance with Dubai Municipality Standards by developing a dynamic site framework leveraging Python and SQL, to maintain a 70% acceptance rate.

TECHNICAL SKILLS

Languages: Java, Python, SQL (PostgreSQL, MySQL)
Developer Tools: Git, Visual Studio, RabbitMQ, Swagger, Postman, PowerShell
Frameworks: Spring Boot

EDUCATION

Rafik Hariri University
Bachelor of Engineering in Computer and Communications Engineering
GPA: 3.8 / 4.0 Distinction

Meshref, LB
Aug. 2021 – May 2025