

# Osama Radwan

## Software Engineer - Data Analyst

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Driven by a deep passion for software engineering and data analysis, I am a highly skilled and motivated professional dedicated to building exceptional software products that push the boundaries of innovation. With 4 years of experience in the tech industry, I have honed my expertise in developing cutting-edge solutions and optimizing data-driven strategies to deliver outstanding results.

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## PROFESSIONAL EXPERIENCE

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### Back-end Engineer/Data Analyst, Monty Mobile

05/2021 – present | Beirut, Lebanon

Monty Mobile is a VAS & telecom solutions provider , working to facilitate the international flow of Voice and SMS across global markets.

#### Achievements/Tasks:

Back-end Engineer:

- Involved in the complete life cycle including analysis, design, development, code review and testing for various projects.
- Implementation and maintenance of multiple projects provided by Business Analysis team (Front-end and Back-end).
- Coordinate tasks among team members and follow up on planning.
- Built an automated software application that reads data in Excel sheets, cleans and modifies the data to populate them into one unified relational MySQL Database Schema.
- Spearheaded the development of a user-friendly web application enabling users to search, retrieve, and transform data seamlessly by selecting categories and applying filters.
- Engineered a custom algorithm for dynamically generating MySQL queries based on user input, optimizing database searches for speed and accuracy.
- Innovated a dynamic data processing pipeline that allowed users to upload CSV files for data enrichment. Leveraged regular expressions (regex) to perform data cleansing and modification on the server-side and return the processed and enriched data in a downloadable CSV file format, accommodating large datasets while maintaining optimal performance.
- Engineered a robust web application with advanced data management capabilities, including daily automated data synchronization from an external API endpoint.
- Implemented a scheduled cron job that autonomously downloads data files from the external API, ensuring up-to-date information in the database.
- Devised an efficient data ingestion system that reads, processes, and updates the database with the newly acquired data, maintaining data consistency and integrity.
- Innovated an on-demand data synchronization feature, allowing users to trigger immediate updates to the database, ensuring real-time access to the latest information.
- Integrating industry-standard JWT (JSON Web Token) authentication and authorization mechanisms and implemented custom middleware for user authentication.
- Designed and executed a comprehensive error handling system, and established rigorous input and type validation procedures.

*Skills: JavaScript, NodeJS, ExpressJS, Web APIs, Python, PHP, GIT, Github, MySQL, PostgreSQL, DataGrip*

Data Analyst:

- Using automated tools to extract data from sources and populating them into our database.
- Developing and maintaining databases, and data systems – reorganizing data in a readable format.
- Removing corrupted data updating the database with the newest data when available.
- Providing the concerned departments with data when needed.

*Skills: Python, Javascript, MySQL, Web APIs, DataGrip, Excel*

### Backend Developer - Mobile Developer, MMSERVICES

08/2018 – 04/2021 | Saida, Lebanon

An Android application for mobile store dealers in the Lebanese market which sells mobile recharge cards, units, and online gift cards.

**Achievements/Tasks:**

- Worked on the backend of the MMSServices application server that handles the operations for sending dollars and days to touch and alfa mobile numbers from the MMService application.
- Built an Android mobile application that shows the prices of phones available in the Lebanese market and allows the user to order through WhatsApp.

*Skills: Flutter, Dart, Java, MySQL, GIT, Github*

**Full-Stack Web Developer, UNRWA - LEBANON FIELD OFFICE**

08/2019 – 03/2020 | Beirut, Lebanon

United Nations Relief and Works Agency for Palestine Refugees in the Near East

**Achievements/Tasks:**

- Worked on a web application project that manages flight and hotel reservations for UNRWA staff using ASP.NET (Entity Framework).
- Worked on quality assurance for the E-Health web application used by the Health Department.

*Skills: ASP.NET Core, C#, Web APIs, Entity Framework, MySQL, Javascript*

**Full-Stack Web Developer Bootcamp, SE FACTORY**

05/2018 – 10/2018 | Beirut, Lebanon

Intensive full stack web development program covering cloud architecture, front and back-end development, source control, and web application security.

**Achievements/Tasks:**

- Ran through programming fundamentals like data structures, algorithms, object oriented programming, programming language concepts, etc...
- Developed knowledge in back-end web development by working on small projects using Laravel (PHP).
- Learned non-technical soft skills (communication skills, time management, creative thinking, team work, conflict resolution, presentation, business etiquette, project management, leadership, and personal finance ).

**Back-End Web Developer Intern,  
UNRWA - LEBANON FIELD OFFICE**

12/2017 – 05/2018 | Beirut, Lebanon

United Nations Relief and Works Agency for Palestine Refugees in the Near East

**Achievements/Tasks:**

- Developed knowledge in back-end web development using PHP.
- Responsible for the implementation of a registration system for schools using PHP, MySQL, and Apache.
- Worked on the design and implementation of responsive user interface using HTML5, CSS3 and Bootstrap.

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**SKILLS**

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**Front-end Web**

**Development:**

HTML/CSS3, Bootstrap, JavaScript, Angular, React

**Operating Systems**

Linux Ubuntu, Linux Mint, Windows

**Back-end Web**

**Development:**

NodeJS, ExpressJS, Laravel, ASP.NET Core, Web APIs, Django, Python, PHP, Java, JavaScript, C#

**MS Office:**

Visio, Excel, PowerPoint etc...

**Version Control**

GIT, Github

**Database:**

MySQL, PostgreSQL, DataGrip

**Mobile Development**

Flutter, Dart

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## PERSONAL PROJECTS

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### CSV to MySQL

A program written in python that reads data from csv or excel file, modifies and organizes the data then inserts them into a MySQL database.

### Contact Faker

A simple python app that reads through a csv list of names and generates a name combination pair, username, email, strong password etc...

### Mobile Number Cleaner

A simple python app that reads a list of mobile numbers and uses regex to clean it from special characters, add country code prefix, and finds its mobile operator.

### Lebphones

A mobile application built using Flutter and Dart.

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## CERTIFICATES

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### Lebanese Collegiate Programming Competition (LCPC) - 2016 - Ranked 7th

The LCPC is a national version of the International Collegiate Programming Contest (ICPC). It serves as a qualifying round for the regional ICPC event (the Arab and African Collegiate Programming Contest) which is the final qualifying round for the World Finals.

The International Collegiate Programming Contest, known as the ICPC, is an annual multi-tiered competitive programming competition among the universities of the world.

### Foundations of Project Management

The first course of the Google Project Management program provided by Coursera.

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## EDUCATION

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**Bachelor in Computer Science**, *Beirut Arab University*

2014 – 2017 | Beirut, Lebanon

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## LANGUAGES

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English | Arabic