

Assala Chamtouri | Data Integration Engineer

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PROFILE OVERVIEW

Assala is a data integration engineer. She has an engineering degree in Industrial Computing. She started her professional life in September 2018. She is interested in literature and technological trends. During her career she has been able to develop communication talents and her technical skills.

Her autonomy, organizational skills, ability to motivate, sense of responsibility and conscientiousness are assets that guarantee the quality of what she produces.

EDUCATION

National School of Electronics and Telecommunications of Sfax, Tunisia <i>National Diploma of Industrial Computer Engineer</i>	2015-2018
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Preparatory Engineering Institute of Sfax, Tunisia <i>Preparatory cycle Physic-Chemistry</i>	2013-2015
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Mustapha Fourati High School of Sfax, Tunisia <i>Bachelor's degree in computer science – with Honors</i>	2013
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TECHNICAL SKILLS

Programming Languages: Java, C, SQL, PL/SQL

Integration Tools: Talend, EIP, Apache Camel, ActiveMQ

JAVA Technologies: Java 8, Java 15, JEE, Apache Kafka, Spring Boot

Cloud Technologies: AWS SQS, AWS API Gateway

Database managing systems: MySQL, PostgreSQL, Oracle, SQLite

Data exchange formats: XML, JSON

Modelling Language: UML 2.0

Web Development: HTML5, CSS3, PHP5, Javascript, Angular, AngularJS

Operating Systems: Windows, Linux, Android

ALM & DevOps tools: TFS, Maven, SonarQube, Git, Nexus, Jenkins

IDE: IntelliJ, Eclipse

Business Process Management: BonitaSoft

Reporting and Collaboration tools: MS Office, Google docs, SharePoint

Methodologies: Agile Scrum, Kanban, ScrumBan

API tools: SOAPUI, Postman

Web Services: SOAP, Rest API

PROFESSIONAL EXPERIENCE

Software Engineer at Freedom Of Dev Services – Sfax, Tunisia

February 2019 – Present

Development and automation of integration flows (Data Integration Engineer)

(January 2020 - Present)

Client: IPM Group is a company group operating in the field of press and media. It owns three newspapers, “La Libre Belgique”, “L'Avenir” and “La Dernière Heure/Les Sports”, as well as their regional editions and websites.

Project Description: The main objective is to automate some data integration flows between the different IT systems of the group.

Responsibilities:

- Analyze customer requirements.
- Develop and implement data integration workflows with Talend.
- Participate in solution installation and deployment.
- Participate in support and maintenance activities.
- Write functional specifications and mapping rules, analyzing APIs to guarantee their integration.
- Integrate Security By Design into the development cycle as part of ISO27001 certification.

Environment: Talend 8.0, Talend Cloud 7.3.1, Talend ESB, REST API, AWS SQS, AWS API Gateway, ...

Methodology: Agile ScrumBan

Mission to Belgium on October 2024: Visit IPM Group Client.

Mission to Netherlands (Breda) & Belgium on June 2024:

Represent *Freedom Of Dev Services* at the annual event of the Yuma Group (FOD Partner) and visit IPM Group Client.

Agenda Culturel 2.0

(March 2020 – May 2020)

Project Description: Develop a new application for the IPM group that allows to synchronize cultural events from the Brussels agenda in order to print them in the special editions “La Libre”.

Responsibilities:

- Participate in the analysis of customer needs.
- Participate in the design and development of the solution.
- Develop the integration flow with the API of Agenda Brussels

Environment: Talend ESB 7.3.1, REST API, AWS SQS, Maven, Java 8, Spring boot, MongoDB, Tomcat,

Méthodology: Agile Scrum

Security Analysis Harmonization Tools (Software Engineer)

(February 2019 – January 2020)

Client : CORESO is a European technical coordinator of Electricity System Operators.

Project Description: The main goal of this project is to provide a set of tools allowing the extraction of the necessary operational data from the exchanged files for the execution of the various processes at Coreso while ensuring the update of the bank of data

Responsibilities:

- Analyze the needs described by the client
- Implementation of technical and architectural choices
- Participate in the implementation of the various modules of the solution
- Prepare the documentation of the solution
- Present demonstrations of the solution for the client
- Participate in the implementation of the different modules according to the client's needs.
- Implement communication between the different micro-services of the platform
- Add components in the interface according to the customer's needs

Technologies : SpringBoot, Java, BonitaSoft, Apache Kafka, PostgreSQL, Log4j, Angular, AngularJS, HTML5, CSS3, Groovy, REST.

Méthodology : Agile Scrum

Academic activities:

- Provide a workshop at ENET'Com in collaboration with the 4C ENETCom center on best practices for developing software using agile principles (November 30, 2024).
- Represent Freedom Of Dev Services at university events (PYFAC, JPO FSS, ENET'COM Forum) since 2021.
- Teach the "Designing Enterprise Agile Solutions" course at IIT during the 1st semester of the 2024/2025 academic year.
- Supervise an end-of-study project, in 2023, entitled "Design and development of a web application: News agency portal": enabling journalists to write and publish articles on a portal accessible to all users registered on a private network. The application (developed with Java, SpringBoot, ELK, Angular) also includes a system for automatically importing articles from third-party sources using Talend, as well as an analytical system in the form of a dashboard for recording various metrics in line with Agile methodology using the Scrum Framework.
- Teach the "Enterprise Integration Patterns" course at IIT during the 2021/2022 and 2022/2023 academic years.
- Member of the team responsible for internships at Freedom Of Dev since September 2022:
 - Responsibilities:
 - Planning internship recruitment sessions.
 - Conduct interviews with candidates.
 - Collecting internship subjects and preparing the PFE Book.
 - Ensure regular follow-up with supervisors and interns.

Software Engineer at OctaDevTN – Sfax, Tunisia**September 2018 – January 2019****Application EMDAD**

Project Description: Android application enabling communication between a customer and a driver to request delivery to the customer's address.

Responsibilities:

- Create application user interfaces.
- Modify geolocation parameters.
- Receive periodic location updates.
- Display a location as an address.
- Invoke rest services using Android Networking.
- Support for sending messages between client and driver.

Technologies: Android, Java, AndroidActive, AndroidNetworking, GoogleAPI, Postman, Socket

Application HALA CHAT

Project Description: Android application enabling users to communicate via private, group or random messages.

Responsibilities:

- Create application user interfaces
- Invoke remaining services using Android Networking
- Support the sending of random, group or private messages using a socket.

Technologies: Android, Java, AndroidNetworking, Postman, Socket.

End Of Studies Internship at Adopt Formation – Sfax, Tunisia February 2018 – June 2018

Development of a facial recognition pointing system using Android, Java, PHP, Raspberry PI3 and Python.

Summer internship at Formanet – Sfax, Tunisia July 2017 – August 2017

Development of a Web site using Wordpress, HTML5, PHP5 et CSS3

Summer Internship at Telecom Tunisia – Sfax, Tunisia July 2016

Management of the computer system by studying new requests and diagnosing telephone line faults.

LANGUAGE SKILLS

French (Fluent)

English (Fluent)

Arabic (Native)

TRAINING

2024 : Software Quality Assurance, Clean Code
Agile Kanban & Scrum & ScrumBan

2023 : *Certification Secure Coding Professional : OWASP TOP 10 (Binsec Academy)*

2022 : *Security By Design, RGPD*

2021 : *AWS, Java 15*

2020: *Apache Camel, AMQP messaging.*

2019 : *Agile software development, Object Oriented Analysis and Design, BonistaSoft, Talend, Angular JS, Apache Kafka, Spring Boot, Angular, Java8*

2018-2019 : *Internet Of Things (niveaux 1 & 2)*

2018 : *Android & JEE*