

Abdelraouf HECHAM

Senior Data Engineer and Fullstack Web/Solidity Developer

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PROFILE

Experienced (+7 years) Full Stack Data Engineer with a Ph.D. in Artificial Intelligence. Specialized in building solutions at the intersection of three domains: **Web Development**, **Data Engineering** and **Smart Contracts (Blockchain)**.

KEY SKILLS

Python (Keras, Flask)

SQL (Oracle, Postgres)

NoSQL (MongoDB, Hbase)

ETL (Hadoop, Talend)

BI (Tableau, Qlik)

AWS (S3)

Java (Spring)

Typescript (Angular, Ionic)

Solidity

Git

Docker



Agile

LANGUAGES

- English (C2): Bilingual
- French (C2): Fluent
- Arab: Native



EXPERIENCE

Senior Data Engineer

Business & Decision  Sep 19 - Now [3 years]  Montpellier | France
Facilitating decisions via Data visualisation and Predictive Models.

- Led the the developement of a generic library for integrating Qlik suite with an existing Angular app for real-time custom visualization of financial data.
- Oversaw a team of 5 developers in building a French NLP model (with OCR) for automatic detection of changes in EU regulations for a cosmetics manufacturer.
- Implemented data integration piplines to process semi-structured data from multiple sources using Hadoop/Talend for various clients.
- Designed and Implemented Salesforce applications that rely on Talend REST APIs to display and interact with NoSQL HBase data.
- Developed Qlik Sense and Tableau dashboards along with the underlying ETL data integration processes vor various clients.

Research and Development Engineer

University of Montpellier  Aug 18 - Jul 19 [1 year]  Montpellier | France
Formalized mathematical models and built a platform for real-time collective decision making based on potentially conflicting shared knowledge.



- Implemented modular architecture across the entire stack while overseeing deployment, documentation, and deliverable reports.
- Implemented Spring REST API with real-time collaboration using websockets.
- Implemented Angular Front-end with graph visualization and interaction.
- Implemented a model for decision prediction based on agents knowledge.
- Tutoring and Lecturing duties (+300h) for graduate students (Databases, Human-Computer Interaction, Web Developement)

Freelance Full Stack Developer

Freelance  Sep 15 - [~7 years]  Montpellier | France
Developed various Web, Mobile and Blockchain applications:

- Currently developing a Web3 task management app with the ability to display progress by minting on-chain and off-chain NFTs (mnemofy.app) [Solidity/Angular].
- Developed a Web app for monitoring daily activities with automatic rating and prediction of daily performance (seshtat.com) [Angular/Ionic/Nodejs].
- Implemented a Web and Mobile app for bodyguard booking (IEyeOnU: Uber of bodyguards) [Angular/Firebase/Nodejs/Ionic/Maps API].
- Landing pages and Web sites developement for various clients via Odesk.

Junior Full Stack Developer

Open Management System  Sep 14 - Aug 15 [1 year]  Constantine | Algeria

- Implemented a user polling website using Laravel/PHP.
- Implemented a scheduling tool with replicated database using Java/MySQL for a language training school.

EDUCATION

Ph.D. in Artificial Intelligence

University of Montpellier  Sep 15 - Jul 18  Montpellier | France
Reasoning with conflicting knowledge applied to various domains such as Databases, Data Quality, Semantic Web, Argumentation, and Human Reasoning.

NOTABLE PERSONAL ACHIEVEMENTS

- Ph.D. Excellency Scholarship:** for students with outstanding curriculum
- Valedictorian:** Bachlor's and Master's degrees
- Cirta-Science-III Astronomy Award:** first place in the Cirta Astronomy contest