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 Developement**, **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)
- Android (Kotlin)   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:

- 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 (1EyeOnU: Uber of bodygards) [Angular/Firebase/Nodejs/Ionic/Maps API].
- Developed a Web3 task management app with the ability to display progress by minting on-chain and off-chain NFTs (mnemosyne.com) [Solidity/Angular].
- 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