

Younes Haddou

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Skills

Languages: SQL, Python, Java

Technologies & Tools: Spring, PostgreSQL, S3, Redshift, Lambda, EC2, Apache Spark, Apache Kafka, Git, Cuda, SQL Server

Work Experience

Amazon.com, Luxembourg

Apr 2024 - Present

Data Engineer

- Owner of new packaging traceability solution across Amazon's Networks leveraging computer vision, APIs and event-driven architecture; driving \$0.8MM/month in savings and improved pack cycle time by 8%.
- Built [Amazon's Packaging Innovation page](#) using Spring, scaling to handle 1M+ monthly unique visitors.
- Designed, migrated, and managing the Packaging data warehouse cluster end-to-end, achieving a 7x improvement in query performance.
- Owner of the reverse cannibalization model, a combinatorial simulation of packaging scenarios to reproduce counterfactual outcomes; Used weekly by leadership and Finance partners to guide deployment decisions and financial forecasts. Prevented \$732K in investment waste by terminating 2 projects and pausing 3 with negative ROI.
- Reduced packaging waste by 5 % and CO2 emissions by 4 % across EU operations by building a simulation framework that models packaging strength and CO2 emissions, with packaging material parameters as inputs; deployed on GPUs.
- Tech Stack: Apache Spark | Redshift | Git | Lambda | S3 | TensorRT | Cuda | Spring

Escape (YC 23), Paris

Jun 2023 - Sept 2023

Machine Learning Engineer Intern

- Developed a [language-agnostic system for automatic API specification generation](#) through static code analysis, enabling 12 enterprises to use Escape's SaaS between 2023 and 2024.
- Implemented a Transformer model within the API specification generator, achieving 96% accuracy in code variable type inference.
- Tech Stack: Pytorch & Spacy (Python) | Docker | Gitlab | Cuda

Atos, Rabat

Jun 2021 - Sep 2021

Software Engineer Intern

- Contributed to the development of a vehicle inspection software as a service (SaaS).
- Developed, tested and deployed two micro-services (Staff Management & Slot Booking).
- Tech Stack: Spring Boot | Spring MVC | PostgreSQL

Education

Ecole des Mines de Saint-Etienne

Sep 2022 - Oct 2024

Master's Degree in Science and Executive Engineering

GPA: 3.6/4

Majors: Data Science, Financial Engineering | **Minors:** Image Processing and Pattern Recognition, Big Data, High performance computing

Ecole Nationale Supérieure d'Informatique et d'Analyse des Systemes

Sep 2020 - Aug 2022

Master's Degree in Computer Science

CGPA: 7.96/10

Relevant Coursework: Algorithms | Data Structures | Information Systems | Database Management | Cloud Computing | Computing Paradigms | Dynamic Programming | Networks

Additional Information

- **Research:** Co-authored a scientific paper on [diagnosing Post-Traumatic Stress Disorder using various machine learning approaches](#), published in the peer-reviewed *IEEE Sensors Journal*.
- **Certifications:** AWS Certified Solutions Architect, HCIA Big Data, HCIA Artificial Intelligence
- **Languages:** French, English (TOEIC 950/990), Arabic
- **Citizenship:** Belgian, Moroccan