Fourat MASTOURI

Availability : ASAP

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SENIOR DATA ENGINEER - 6 YEARS OF EXPERIENCE

Résumé

Freelance consultant in data and software engineering with 5 years of experience, primarily in the banking sector.
My advanced technical skills in programming, engineering, and data processing are complemented by strong interpersonal skills, allowing me to work effectively in a team. I am capable of conveying my knowledge clearly and concisely, and providing technical support to my colleagues and clients.
Available for freelance opportunites starting ASAP.

Professional Experience

Owkin   *Paris - France*

SENIOR DATA ENGINEER - FREELANCE   *August 2023 - Present*

- As part of the "DataOps" team at Owkin, contributed to efforts involving the extraction, curation, and alignment of raw medical data, delivering AI-ready datasets for data scientists.
- Established standardized practices for data management, focusing on data quality and delivery for both internal and external projects.
- Engaged in the integration of medical data throughout its lifecycle, including governance, curation, and processing.
- Implemented and maintained CI/CD pipelines to automate testing and deployment, ensuring delivery quality.
- Developed a metadata schema to support various projects.
- Carried out tasks such as extracting, cleaning, curating, pseudonymizing, harmonizing, and merging diverse datasets.
- Provided personalized mentoring and coaching to junior team members to enhance their technical skills and tool proficiency.
- Oversaw junior team members' projects, offering regular guidance and constructive feedback.
  TECHNOLOGIES: Python, Poetry, Pydantic, Pandas, AWS, GH Actions, DevOps.

Natixis Corporate & Investment Banking   *Charenton-le-Pont - France*

SENIOR DATA ENGINEER - FREELANCE   *February 2022 - June 2023*

- Designed, implemented, and maintained data pipelines for the collection, processing, and storage of financial data.
- Developed and optimized ETL processes to ensure data integrity and quality.
- Contributed to the architecture and functional structuring of the data lake.
- Assessed the performance of data processing workflows and identified areas for improvement.
- Worked closely with business teams to understand their data requirements and propose tailored technical solutions to enhance reporting and analysis processes.
- Managed multilingual communication with clients and superiors in English and French.
- Provided guidance and mentorship to junior team members, promoting best practices and knowledge sharing.
  TECHNOLOGIES: Python, Spark, Hadoop, XLRelease, XLDeploy, Jenkins, Bitbucket, Control-M, Indexima.

Société Générale   *Fontenay-sous-Bois - France*

SENIOR DATA ENGINEER - DAVIDSON CONSULTING CONSULTANT   *March 2019 - February 2022*

- Within the Big Data Competency Center (CCBD) and later ITIM/CFT (Fast-IT), contributed to a project aimed at combating internal fraud by industrializing fraud detection workflows in a big data environment.
- Streamlined and operationalized fraud detection processes developed by data scientists.
- Developed data processing and enrichment modules using PySpark.
- Set up data collection pipelines from retail banking data centers to the Hadoop cluster.
- Supported a team of data scientists in leveraging the big data platform effectively.
- Ensured GDPR compliance at the application level.
- Managed multilingual communication with support team in Bangalore in English.
- Handled the operation and maintenance (RUN) of multiple production applications, assisting support teams in incident management and process recovery.
  TECHNOLOGIES: Apache Spark, Python, Bash, Oozie, HDFS/Hive, Talend, Control-M.

Danone Research
Palaiseau - France

D<small>ATA</small> <small>ENGINEER</small> - D<small>AVIDSON</small> C<small>ONSULTING</small> C<small>ONSULTANT</small>
September 2018 - February 2019

- As part of the "Biometry & Data Science" team and within Danone's SMART DATA program, my role was to implement data integration workflows.
- Designed, modeled, and implemented data integration processes.
- Conducted a Data Protection Impact Assessment (DPIA) to ensure GDPR compliance.
- Developed a self-service portal enabling non-technical teams to access data from multiple APIs.
- Coordinated with teams in Utrecht and Singapore, acting as a bridge between the two entities to ensure smooth project execution and alignment of the solution with requirements.
  T<small>ECHNOLOGIES:</small> Cloudera, Apache Spark, Python, Pandas, Alteryx, Impala.

Davidson Consulting
Boulogne Billancourt - France

B<small>IG</small> D<small>ATA</small> C<small>ONSULTANT</small> - P<small>ERMANENT</small> C<small>ONTRACT</small>
September 2018 - February 2022

- As a Big Data Consultant, my role was to support Davidson's clients in implementing their data projects within highly distributed environments.
- Contributed to the preparation and drafting of technical sections for responses to requests for proposals (RFPs).
- Assisted Davidson's business engineers in identifying and recruiting new talent while expanding their client portfolios.
- Led workshops to simplify and explain technical concepts to sales teams.

Paris-Saclay University
Évry - France

A<small>DJUNCT</small> L<small>ECTURER</small> - F<small>IXED</small>-T<small>ERM</small> C<small>ONTRACT</small>
September 2019 - June 2023

- Instructor for the "OLAP & Multidimensional Databases" course in the Master's program (M2 IMSD).
- Mentored students and supported some of them as an academic tutor.

Jems DataFactory / Laboratoire Images, Signaux et Systèmes Intelligents (LiSSi)
Neuilly-sur-Seine - France

R&D D<small>ATA</small> E<small>NGINEER</small> - A<small>PPRENTICESHIP</small>
December 2017 - August 2018

- Implemented various use cases involving Big Data technologies within the JEMS DataLab and the LISSI (Laboratory of Image, Signal, and Intelligent Systems) at UPEC.
  T<small>ECHNOLOGIES:</small> Hortonworks, ELK Stack, NiFi, Spark, Talend.

Academic Background

Master's Degree
Évry, France

P<small>ARIS</small> S<small>ACLAY</small> U<small>NIVERSITY</small>: W<small>ORK</small>-S<small>TUDY</small> P<small>ROGRAM</small>
2018

- Master's Degree in IMSD - **I**nnovation, **M**arché, **S**ciences des **d**onnées - Innovation, market and data science.
- Work-study Master's program specializing in Data Science and Data Engineering.
  K<small>EYWORDS:</small> Big Data technologies, ElasticSearch, Hadoop, Spark, NoSQL, Microsoft Azure, ML, Data Visualization.

Engineering Degree in Information Systems
Tunis, Tunisia

ENIC<small>ARTHAGE</small>, N<small>ATIONAL</small> E<small>NGINEERING</small> S<small>CHOOL</small> <small>OF</small> C<small>ARTHAGE</small>
2017

- Engineering school admitting students through the national exam for engineering schools.
  K<small>EYWORDS:</small> Information systems, development platforms, Java/J2EE, software architecture.

Skills

T<small>ECHNOLOGIES:</small>

Data Engineering: Spark, Airflow, Elastic Stack, Hadoop Ecosystem, Kafka.
Programming: Python, Bash scripting.
Tooling / Devops: Git, Make, Github Actions, Jenkins, Ansible, AWS EC2.
Databases: PostgreSQL, MySQL, Hive, Indexima, AWS S3.

L<small>ANGUAGES:</small>

French: Native
English: Professional Working Proficiency - TOEIC (985 / 990) $\simeq$ 99%.

Certifications

| June 2024 | **Astronomer Certification for Apache Airflow Fundamentals** | *Astro Academy* |
| In Progress | **AWS Certified Cloud Practitioner CLF-C02** | *AWS* |

Additional Information

- P<small>REFERRED</small> C<small>ONTRACT:</small> Exclusively seeking full-time freelance opportunities. Not interested in permanent contracts.
- R<small>EMOTE</small> W<small>ORK</small> P<small>REFERENCE:</small> At least 2.5 days of remote work per week if the contract is in the Paris area. Remote work arrangements are negotiable for contracts in other regions.
- G<small>EOGRAPHICAL</small> M<small>OBILITY:</small> Open to traveling to other regions for a few days per month if necessary.