Samuel Roux

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� https://github.com/SamlRx

French (Native) , English (Fluent)

Summary

Seasoned Data Engineering Leader with over 15 years of experience in architecting and scaling data platforms. Proven expertise in leading cross-functional teams, implementing cloud-native solutions, and driving data strategies that align with business objectives. Adept at fostering collaborative environments, mentoring engineers, and delivering high-impact scalable solutions.

Competencies

Leadership & Strategy: Team Building, Cross-functional Collaboration, Agile Methodologies

Data Engineering: ETL and ELT Pipelines, Batch and Real-time Data Processing, Data Modeling

Cloud Platforms: AWS, GCP

Technologies: Kafka, Spark, Beam, Dataflow, DuckDB, Debezium, Terraform, Kubernetes, Docker

Programming: Python, Java, SQL

Datastores: PostgreSQL, MongoDB, Hive, BigQuery, S3, Iceberg

System Design: Medallion Data Architecture, SOLID, Hexagonal Architecture

Tools: GitHub, GitLab, Jenkins, CircleCI, Docker Compose, Maven

Experience

Engineering Manager Data Platform - Hands On - Team of 4

Crossbeam (GTM) — 2024/09/01 to Present
Aurora, PostgreSQL, AWS, GitLab, Kafka, Temporal, Debezium, DuckDB

- Established and led a distributed Data Platform team across three time zones, enhancing data infrastructure resilience and scalability.
- Architected a cloud-native data solution enabling near real-time access to business metrics.
- Implemented career development programs, resulting in increased team retention and technical ownership.

Staff Data Engineer

Crossbeam (GTM) — 2023/01/01 to 2024/09/01
Dataflow, Apache Beam, PubSub, Python, Kubernetes, Terraform, MongoDB, Docker, PostgreSQL, Debezium

- Defined scaling principles for data infrastructure, supporting rapid horizontal growth.
- Developed production-grade streaming and batch pipelines using GCP, Apache Beam, and MongoDB.
- Introduced CI workflows and infrastructure as code practices, increasing deployment velocity and reliability.
- Collaborated with product and engineering teams to translate complex data needs into scalable solutions.

Tech Lead Data - Hands On - Team of 7

Harmonie Mutuelle (Health Insurance) — 2019/04/01 to 2022/12/31
Spark, Kafka, Java, Hive, HBase, Maven, Jenkins

- Led a team of seven in delivering scalable, high-performance data solutions aligned with health insurance initiatives.
- Executed a roadmap for a modernized data platform, enabling real-time analytics and regulatory reporting.
- Delivered complex batch and streaming data pipelines for fraud detection, claims processing, and member insights.
- Established engineering excellence standards, including automated testing and CI/CD workflows.

Big Data Engineer

Harmonie Mutuelle (Health Insurance) — 2018/01/01 to 2019/04/01

Spark, Kafka, Java, Hive, HBase, Maven, Jenkins

- Designed scalable real-time and batch data architectures, improving system throughput and reducing technical debt.
- Introduced performance benchmarks and coding guidelines, enhancing maintainability and onboarding speed.
- Developed CI/CD pipelines, accelerating release cycles and enabling continuous delivery to production.

Enterprise Architect

Harmonie Mutuelle (Health Insurance) — 2014/07/01 to 2017/12/31

Datastage, Java, SQL, Kafka, Maven, Jenkins

- Developed and executed IT strategy roadmaps, aligning data architecture with long-term business goals and enabling scalable digital transformation initiatives.
- Established data processing best practices, optimizing system performance and resource efficiency across legacy and modern platforms.
- Standardized engineering workflows and tooling, improving developer productivity and reducing deployment friction through CI integration and code quality practices.

Data Engineer

Harmonie Mutuelle (Health Insurance) — 2011/06/01 to 2014/06/30

Datastage, Oracle, PL/SQL

- Developed and maintained ETL processes using Datastage, Oracle, and PL/SQL, ensuring data integrity and availability.
- Collaborated with business stakeholders to define data requirements and deliver actionable insights.

Data Engineer

Business & Decision (Services) — 2009/02/01 to 2010/12/31

Datastage, Oracle, PL/SQL, Siebel

- Designed and implemented data integration solutions using Datastage, enhancing data flow efficiency.
- Worked with cross-functional teams to deliver data solutions that supported business intelligence initiatives.

Full Stack Developer

Moustic Multimédia (Web development) — 2008/06/01 to 2008/08/31

PHP, Joomla, CSS, Action Script, MySQL

Business Intelligence Developer

VM-Matériaux (Building materials) — 2007/04/01 to 2007/08/31

Microsoft Reporting Services, PL/SQL

Education

Master's Degree in Computer Science

University of La Rochelle — 2007 to 2009

Specialization: System Design and Architecture

Bachelor's Degree in Software Engineering and Mathematics

University of La Rochelle — 2004 to 2007

Interests

- Martial Arts Practitioner (17+ years)
- Maker with a focus on 3D Printing and Woodworking