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**Chouaieb Nemri**[Follow](#)

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Your 2022 Data Engineering Roadmap



What's up dear readers ? I've been absent for almost two months. It was for a good reason, I was working on one of my Dreams (I'll talk about it in a Future blog post)

Introduction

A new year means, new resolutions. A good resolution to have in 2022 is doing a career



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the tech industry so feel free to skip the steps and concepts you're already comfortable with.

1. Programming Languages



Learn one / or two of the following Programming Languages (Python — Java — Scala)

- **Python:** <https://www.udemy.com/course/complete-python-developer-zero-to-mastery/>
- **Scala Beginners:** <https://www.udemy.com/course/rock-the-jvm-scala-for-beginners/>



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- System Administration: <https://www.udemy.com/course/linux-administration-bootcamp/>
- Shell Scripting: <https://www.udemy.com/course/linux-shell-scripting-projects/>

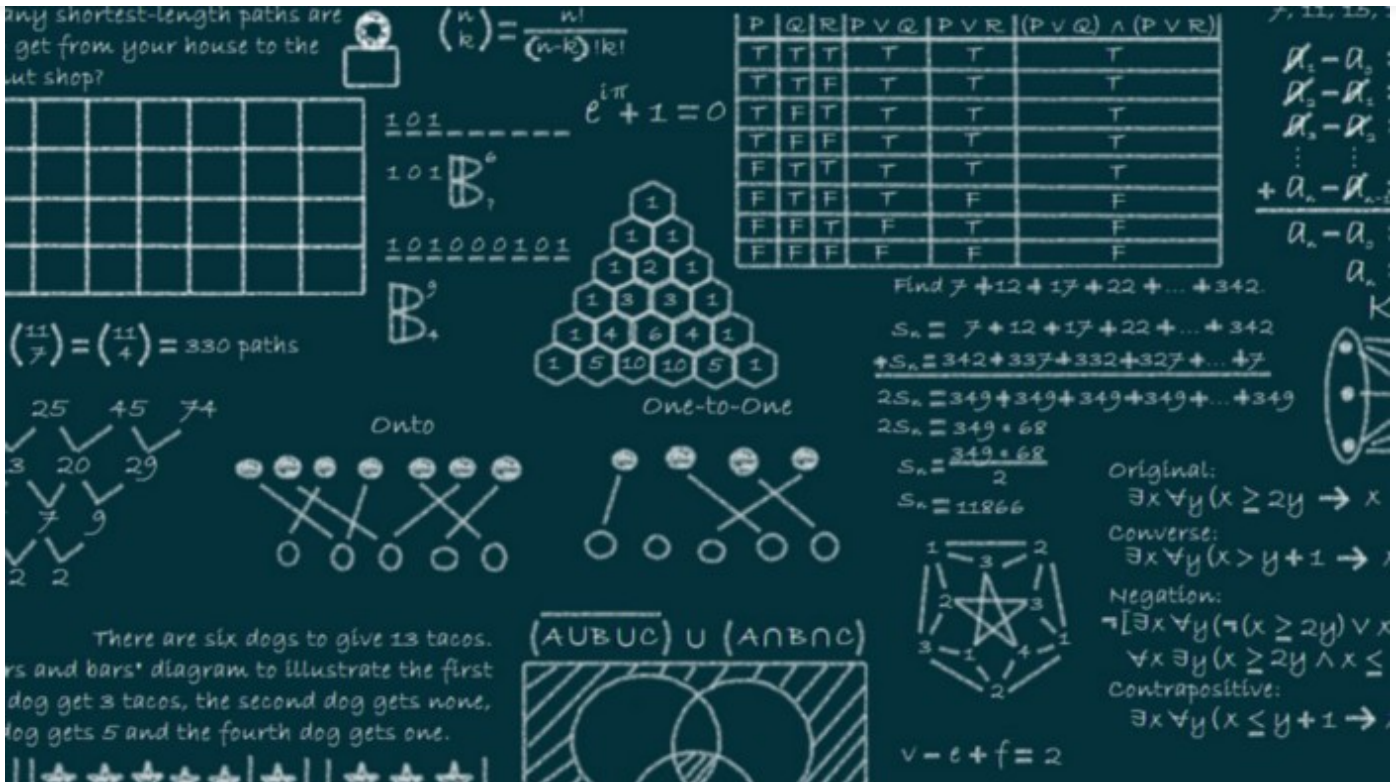
3. Learn about Data Structures and Algorithms





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- <https://www.udemy.com/course/master-the-coding-interview-data-structures-algorithms/>

4. Learn about Core DBMS (Data Base Management Systems)



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- <https://www.udacity.com/course/database-systems-concepts-design--ud150>

5. Learn SQL



- <https://www.udacity.com/course/sql-for-data-analysis--ud198>

6. Data Exploration Libraries (Pandas — NumPy — Spark)



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7. Data Warehousing Concepts



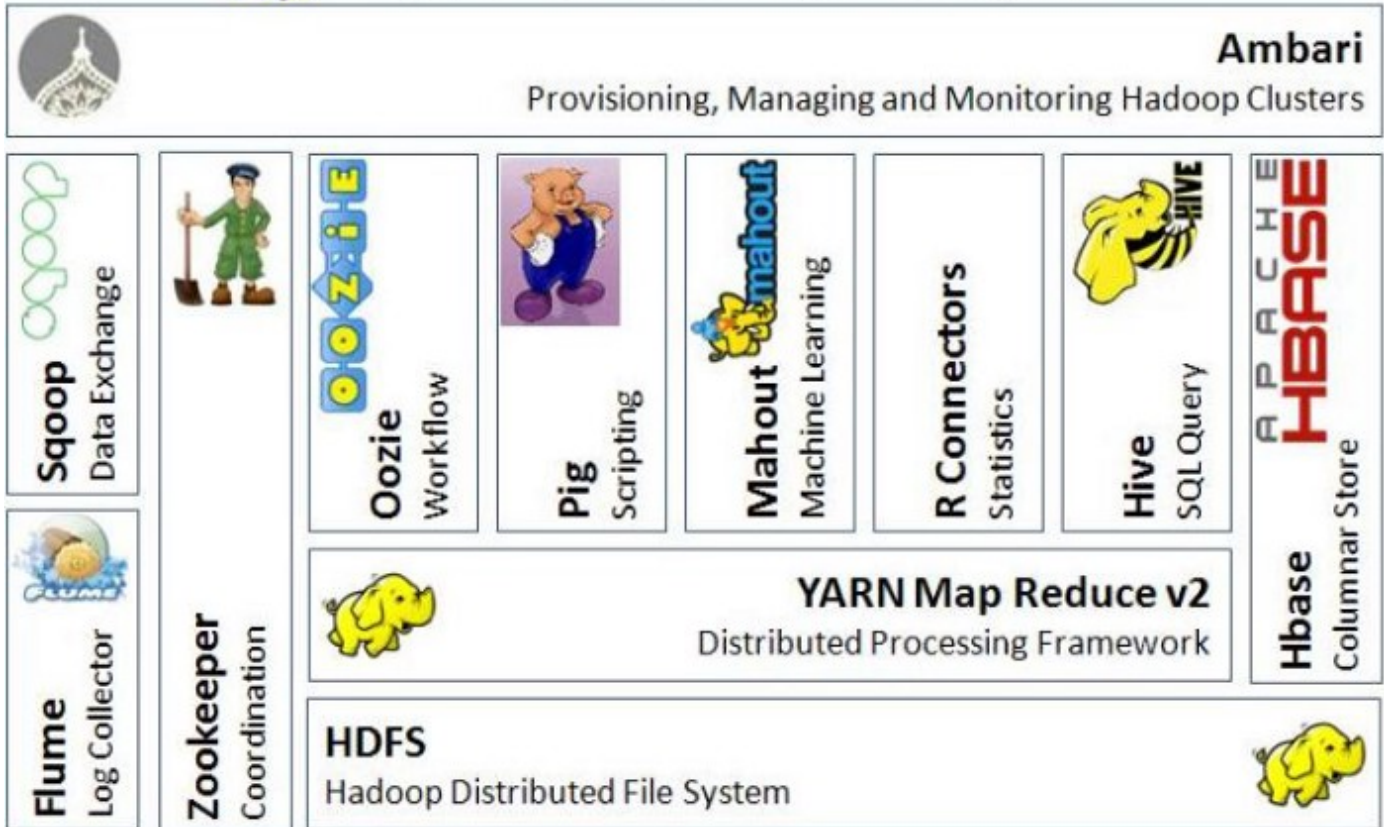
- General Concepts: <https://www.coursera.org/specializations/data-warehousing>
- Snowflake: <https://www.udemy.com/course/snowflake-masterclass/>

8. Learn about Hadoop ecosystem




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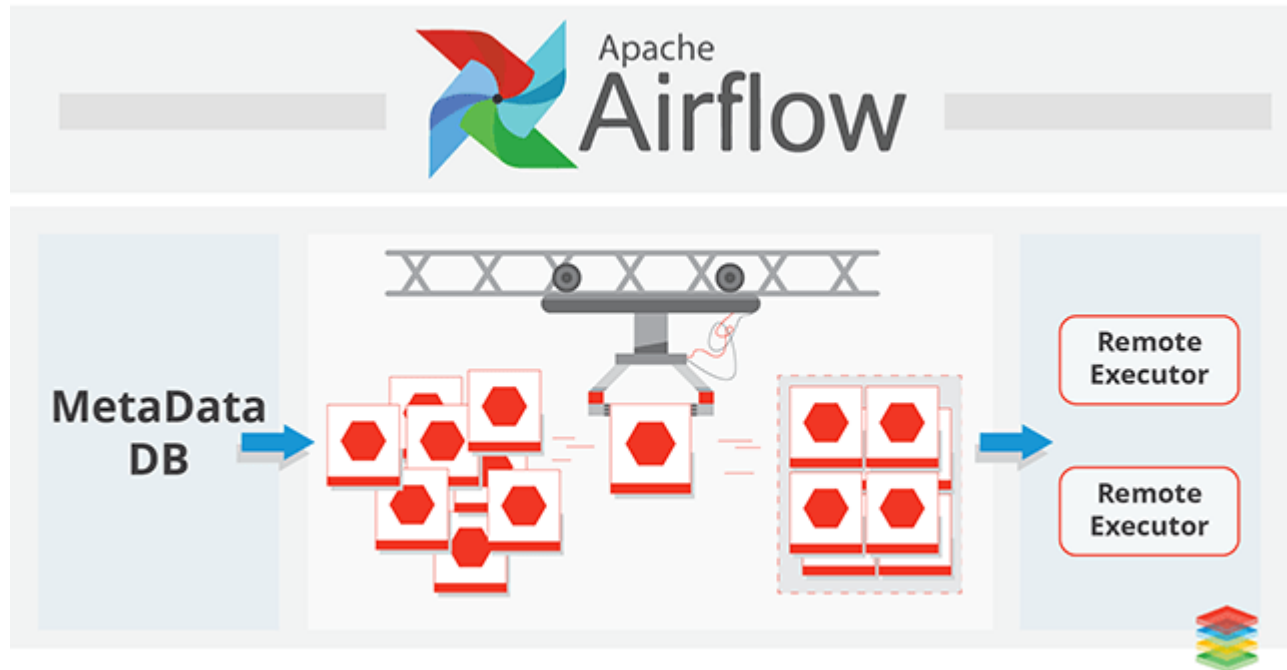

Apache Hadoop Ecosystem



- Hadoop Ecosystem: <https://www.udemy.com/course/the-ultimate-hands-on-hadoop-tame-your-big-data/>
- Spark (Scala): <https://www.udemy.com/course/spark-essentials/>
- Spark Streaming: <https://www.udemy.com/course/spark-streaming/>

9. Workflow schedulers



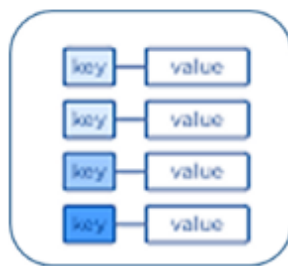

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- Apache Airflow: <https://www.udemy.com/course/the-ultimate-hands-on-course-to-master-apache-airflow/>

10. NoSQL Databases



Document
Store



Key-Value
Store



Wide-Column
Store



Graph
Store

- Read this article: <https://www.journaldunet.com/solutions/dsi/1194284-base-nosql-laquelle-choisir-pour-quels-besoins/>
- Cassandra: <https://www.udemy.com/course/learn-cassandra-from-scratch/>

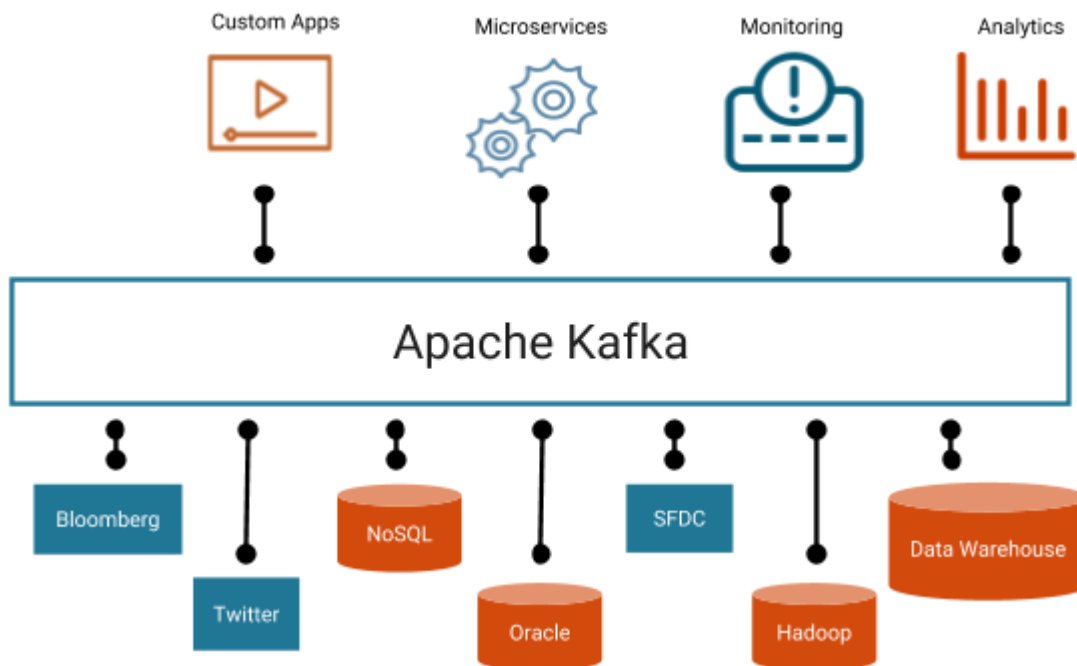




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11. MQ (Streaming frameworks)



- Apache KAFKA: <https://www.udemy.com/course/apache-kafka/>

12. Dashboarding tools



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- Kibana: Look at ElasticSearch part
- Tableau: <https://www.udemy.com/course/tableau-10-u/>
- Python: <https://www.udemy.com/course/learning-python-for-data-analysis-and-visualization/>
- Matplotlib
- Seaborn

13. Cloud Computing:



- AWS: <https://www.coursera.org/learn/aws-cloud-technical-essentials>
- Google: <https://www.coursera.org/learn/gcp-fundamentals>



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- AWS: <https://www.udemy.com/course/aws-data-analytics/>
- Google: <https://www.coursera.org/professional-certificates/gcp-data-engineering>
- Azure: [https://www.coursera.org/specializations/microsoft-azure-dp-203-data-engineering?](https://www.coursera.org/specializations/microsoft-azure-dp-203-data-engineering?specialization=203)

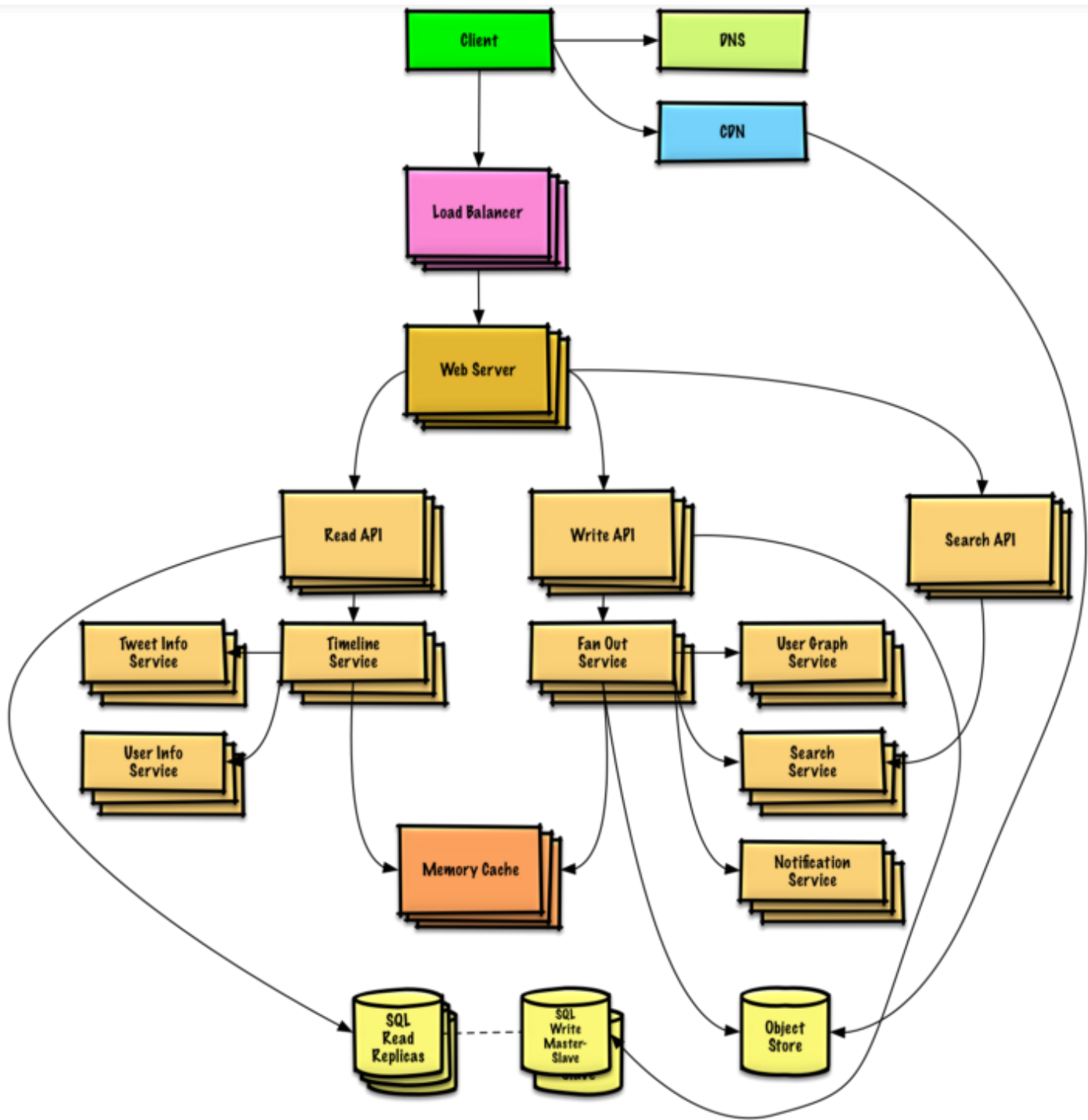
15. DevOps (Docker — Kubernetes)



- Docker: <https://www.udemy.com/course/learn-docker/>
- Kubernetes: <https://www.udemy.com/course/learn-kubernetes/>

16. System Design




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- <https://www.udemy.com/course/system-design-interview-prep/>

About me



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[Let's connect on LinkedIn](#). I work as a Lead Cloud Data Engineer for [DataScientest.com](#), a leading Data-driven French EdTech Startup specialized in Data and Cloud Training. I am a Certified Data Engineer on the Top 3 leading Cloud Platforms: AWS, Google, Microsoft Azure. In addition, I hold 2x Kubernetes and 6x additional AWS certifications. I happen to suffer from a severe physical disability tying me to the use of an Electric Wheelchair. I am a Disability Rights advocate and a happily married father of two boys.

Get an email whenever Chouaieb Nemri publishes.



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