Data Engineering Road Map(Links Are **Underlined)**

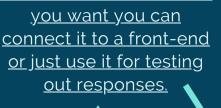


THINGS YOU SHOULD BE LEARNING ALONG THE WAY

CI/CD, Logging and Monitoring Tools, Debugging Tools(and the general skill set)

2.BUILD YOUR FIRST PROJECT

Build A basic Flask API. If <u>you want you can</u> or just use it for testing out responses.





1.CODING BASICS

SQL

Python

be bad to learn some

server concepts like

SFTP. Firewalls. etc)

3. Linux(Also it wouldn't

4. BUILD YOUR SECOND PROJECT

- 1. Scrape an online source 2. Store encrypted data into SFTP
- 3. Create dimensional model
- 4. Pull data from SFTP and load into Data Warehouse(Don't worry too much about Workflows just yet)



3.LEARN ABOUT DATA WAREHOUSES

- Read Kimball's Data Warehouse Guide
- 2. Take The Basics To Data Warehousing Udemy
- 3. Read An Introduction: Is Data Engineering For You

5.START LEARNING **ABOUT TESTING**

Unit testing, Integration Testing, etc Check out TDD Course Like <u>Unit TDD For Python</u>

5.LEARNING ABOUT SOME WORKFLOW TOOLS

Launch Airflow with Docker. This will allow you to get a high-level understanding of Docker while learning Airflow.

6.LEARN ABOUT CLOUD AND NOSQL

- 1. Cloud Data Warehouses and ETLs using Googles Data Certificate or Azure's
- 2. <u>Check Out FreeCodeCamps -</u> Database Systems - Cornell University Course (SQL, NoSQL, Large-Scale Data Analysis)

8.START STUDYING FOR INTERVIEWS

Start practicing some DS&A as well as SQL and data warehousing <u>questions</u>

10.1 FARN **ENOUGH** UI/UX AND DASHBOARDING

Pick 1 dashboarding tool and learn how it function. Also learn a little about dashboarding UI/UX.



7. LEARN ABOUT STREAMING AND DISTRIBUTED SYSTEMS

- 1. Consider checking out Andrea's videos Why Learn Kafka
- 2. Take Frank Kane's Course on Spark and Hadoop
- Check Out StartDataEngineerings Projects



9.BUILD YOUR THIRD PROJECT

<u>Use a Cloud Managed</u> Service like AWS Kinesis to stream data and pair it with a batch ETL tool that pulls from a second source.

You can store all the data in BigQuery and create some form of Data viz. This will also he;p you learn the next step



11.PICK SOME OF YOUR OWN

At this point, you probably have found some personal favorites in terms of tool types. Why not learn a little more about them?

If you liked Docker, learn about Kubernetes, if you liked Dashboarding, pick a different tool, if you like the cloud, then why not learn a new cloud stack?

Some links may be affiliates that are helping support my channel. Thank you!



Check out Felipe Hoffa For Some Great Examples Of Documentation

