

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 you want you can connect it to a front-end or just use it for testing out responses.

1.CODING BASICS

1. [SQL](#)
2. [Python](#)
3. [Linux](#)(Also it wouldn't be bad to learn some server concepts like SFTP, Firewalls, etc)

4. BUILD YOUR SECOND PROJECT(CHOOSE ONE)

1. [Build An end-to-end web scraping project](#)
2. [ChatGPT Project](#)
3. [Youtube Data Analysis Project](#)

3.LEARN ABOUT DATA WAREHOUSES

1. [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 Unit TDD For Python](#)

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. [Check Out FreeCodeCamps - Database Systems - Cornell University Course \(SQL, NoSQL, Large-Scale Data Analysis\)](#)

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](#)
3. [Check Out StartDataEngineerings Projects](#)

8.START STUDYING FOR INTERVIEWS

[Start practicing some DS&A as well as SQL and data warehousing questions](#)

9.BUILD YOUR THIRD PROJECT

[Use a Cloud Managed 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 help you learn the next step](#)

10.LEARN **ENOUGH** UI/UX AND DASHBOARDING

[Pick 1 dashboarding tool and learn how it function. Also learn a little about dashboarding UI/UX.](#)

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?

DOCUMENT YOUR WORK

[Check out Felipe Hoffa For Some Great Examples Of Documentation](#)

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