**Python Development:**

* Download and install Python from the following URL;

<https://www.python.org/>

Use tutorial in the documents downloaded.

* Download and Install PyCharm IDE (Community Edition Free) from the following:

<https://www.jetbrains.com/pycharm/download/#section=windows>

* Tutorial on Youtube

<https://www.youtube.com/watch?v=_uQrJ0TkZlc>

**C++ Development**

* Tutorial on Youtube

<https://www.youtube.com/watch?v=ZzaPdXTrSb8>

* Download and install Microsoft Visual Studio community edition (free) from the following URL;

<https://visualstudio.microsoft.com/vs/community/>

* Tutorial and reference website

<https://cplusplus.com/doc/tutorial/>

<https://cplusplus.com/files/tutorial.pdf>

<https://cplusplus.com/doc/>

**Java Development**

* Tutorial on Youtube

<https://www.youtube.com/watch?v=eIrMbAQSU34>

* Download and install Java Development Kit (Oracle OpenJDK (free) v20 for Windows x64 ) from the following URL;

<https://jdk.java.net/20/>

* Download IntelliJ IDE Community Edition from the following:

<https://www.jetbrains.com/idea/download/#section=windows>

* Tutorial and reference website

<https://www.tutorialspoint.com/java/java_tutorial.pdf>

<https://www.w3schools.com/java/default.asp>

**SQL Development with MySQL from Oracle**

* SQL Tutorial on Youtube

<https://www.youtube.com/watch?v=7S_tz1z_5bA>

* Download and install MySQL Server Community Edition for Windows from the following URL;

<https://dev.mysql.com/downloads/mysq>

* ??Download MySQL Workbench for Windows (go back to community edition and select Workbench from the following

<https://dev.mysql.com/downloads/workbench/>

* SQL Tutorial and reference website

<https://www.w3schools.com/sql/sql_intro.asp>

* Relational Database Tutorial (Detailed)

<https://www.youtube.com/watch?v=wp-7XtuIkqQ&list=PLhwiWaeTESev_ikFYJmneK26jYXoqepxR>

**Web Development with HTML**

* Free Beginners Tutorial on Youtube

<https://www.youtube.com/watch?v=qz0aGYrrlhU>

* Download VisualStudio Editor

<https://code.visualstudio.com/>

Add/Download extensions:

* Prettier Code Formatter,
* Live Server
* Use Google Chrome.
* Tutorial and reference website

<https://www.w3schools.com/html/default.asp>

**JavaScript Development**

* Free Beginners Tutorial on Youtube

<https://www.youtube.com/watch?v=W6NZfCO5SIk>

* Download VisualStudio Editor (already done in previous step for Web Development)
* Download Node.js from

<https://nodejs.org/en>

* JavaScript Reference Website: <https://javascript.info/>
* Tutorial and reference website

<https://www.w3schools.com/js/default.asp>

**Statistics and R Programming Tutorials**

* Introduction to Statistics (Brief))

https://www.youtube.com/watch?v=kyjlxsLW1Is

* Marin’s Statistics Course (Detailed)

<https://www.youtube.com/watch?v=AN3UkzE3HMg&list=PLqzoL9-eJTNAB5st3mtP_bmXafGSH1Dtz>

* W3schools Statistics Course

<https://www.w3schools.com/statistics/index.php>

* R Programming Software (Free Version) Download and Install

<https://posit.co/download/rstudio-desktop/>

* 1. Download and Install R for Windows
  2. Download and Install RStudio for Windows
* Connecting RStudio and GIT

<https://www.youtube.com/watch?v=MdmnE3AnkQE>

<https://www.youtube.com/watch?v=E2d91v1Twcc>

* Creating Your First R Package in 2 Minutes in RStudio

https://www.youtube.com/watch?v=47PN2VG3RmI

* Marin’s R and RStudio Programming Tutorial

<https://www.youtube.com/@marinstatlectures>

Select “Data Analysis with R | R for Data Science and Statistics | MarinStatsLectures”, click Play All Here

<https://www.youtube.com/watch?v=riONFzJdXcs&list=PLqzoL9-eJTNARFXxgwbqGo56NtbJnB37A>

* R Programming Tutorial in PDF

Download and Save the following PDF in your directory

<https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf> (recommended)

<https://cran.r-project.org/doc/contrib/Paradis-rdebuts_en.pdf> (recommended)

<http://www.tutorialspoint.com/r/r_tutorial.pdf>

For references on R Language and Statistics

<https://www.w3schools.com/r/default.asp>

* Barton Poulson R Programming Tutorial - Learn the Basics of Statistical Computing

Tutorial :

<https://www.youtube.com/watch?v=_V8eKsto3Ug>

Course Notes:

<https://drive.google.com/drive/folders/15U8WjVKbYXaq6N6Wb_6bCr9QZ1DwCkAO>

**Concepts and Knowledge Tutorials**

* Data Structures and Algorithms

<https://www.youtube.com/watch?v=BBpAmxU_NQo>

* Object Oriented Programming

<https://www.youtube.com/watch?v=pTB0EiLXUC8>

* GIT Version Control

<https://www.youtube.com/watch?v=8JJ101D3knE>