

FE Vol.1 Resources by Chapter

About

Free resources for Vol.1 are listed below. Those with *[Deep Dive]* prefix are for a more comprehensive approach, should you afford time and effort.

Disclaimer

- I do not own any of the resources, nor have any official affiliation with ITPEC organization.
- This may not cover the entirety of FE vol. 1 material.

Resources

- **Chapter 1 & 2 Basics**
 - [How Computers Work](#)
 - [Crash Course Computer Science](#) (Ep. 3 – Ep. 9)
 - [GCSE Computer Science](#) (Ep. 1 – Ep. 5)
 - [Bitwise Operations](#)
 - *[Deep Dive]* [nand2tetris](#)
- **Chapter 3 Operating Systems**

- [Crash Course Computer Science](#) (Ep. 19 – Ep. 24)
- *[Deep Dive]* [Three Easy Pieces](#)

- **Chapter 4 Databases**

- [Database Normalization](#)
- [SQL Explanation](#)
- [SQL Course \(freecodecamp\)](#)
- [SQL Course \(codecademy\)](#)
- *[Deep Dive]* [Database Fundamentals](#)

- **Chapter 5 & 6 Networking and Security**

- [Crash Course Computer Science](#) (Ep. 29 – Ep. 34)
- [Networking Animated Videos](#) (Relevant Topics)
- [Network Addressing](#)
- [The OSI Model by Example](#)
- [Security and Cryptography](#)

- **Chapter 7 Algorithms & Data Structures**

- [Crash Course Computer Science](#) (Ep. 11 – Ep. 15)
- [CS50](#)
- [Data Structures](#)
- [Sorting Algorithms Visualizations](#)

- [Data Structure Visualizations](#)

- **Programming**

- [The Odin Project](#)
- [freecodecamp](#)
- [Java Programming](#) (eBook)

- **Others**

- [Diagramming](#) (Relevant Topics)
- [Unified Modelling Language](#)