Contact Us With Questions	Date Completed	Notes	Personal Difficulty 1-5
Intro			
This is a data engineering study guide that you can use to help prepare yourself for your interview. This was developed by people who have interviewed and gotten jobs at FAANGs and several other tech companeis. We hope these help you get great jobs as well. In order to use this, you can make a copy of this sheet and follow along with the study guide. Keeping track helps you know where you are and how you are doing.			
SQL - Problems			
262. Trips and Users			
601. Human Traffic of Stadium			
185. Department Top Three Salaries			
626. Exchange Seats			
Hackerrank The Report			
177. Nth Highest Salary			
Symmetric Pairs			
Occupations			
Placements			
Ollivander's Inventory			
SQL - Videos			
IQ15: 6 SQL Query Interview Questions			
Learning about ROW_NUMBER and Analytic Functions			
Advanced Implementation Of Analytic Functions			
Advanced Implementation Of Analytic Functions Part 2			
Wise Owl SQL Videos			
Post Video SQL Problems			
Binary Tree Nodes			
Weather Observation Station 18			
Challenges			
Print Prime Numbers			
595. Big Countries			
626. Exchange Seats			
SQL Interview Questions: 3 Tech Screening Exercises (For Data Analysts)			
Databases, ETL and Data Warehouses			

Designing A Traditional Relational Database Video			
Data Warehouse Design Video			
ETL Design Video			
Design a Database/ETL and DW for a			
Dating App			
Bicycle Rental Service			
Music Streaming App			
Job Search Website			
Udemy like website			

Algorithms And Data Structures

Pre-Study Problems			
985. Sum of Even Numbers After Queries			
657. Robot Return to Origin			
961. N-Repeated Element in Size 2N Array			
110. Balanced Binary Tree			
3. Longest Substring Without Repeating Characters			
19. Remove Nth Node From End of List			
23. Merge k Sorted Lists			
31. Next Permutation			
Algorithms And Data Structures Videos			
Data Structures & Algorithms #1 - What Are Data Structures?			
Data Structures: Linked Lists			
Data Structures: Trees			
Data Structures: Heaps			
Data Structures: Hash Tables			
Data Structures: Stacks and Queues			
Data Structures: Crash Course Computer Science #14			
Data Structures: Tries			
Algorithms			
Python Algorithms for Interviews			
Algorithms: Graph Search, DFS and BFS			

[Algorithms: Binary Search](#)			
[Algorithms: Recursion](#)			
[Algorithms: Bubble Sort](#)			
[Algorithms: Merge Sort](#)			
[Algorithms: Quicksort](#)			
Big O Notation			
[Introduction to Big O Notation and Time Complexity (Data Structures & Algorithms #7)](#)			
Some Interview Walk Throughs			
[Amazon Coding Interview Question - Recursive Staircase Problem](#)			
[Google Coding Interview - Universal Value Tree Problem](#)			
[Google Coding Interview Question and Answer #1: First Recurring Character](#)			
Post-Study Problems			
[Bigger Is Greater](#)			
[6. ZigZag Conversion](#)			
[7. Reverse Integer](#)			
[40. Combination Sum II](#)			
[43. Multiply Strings](#)			
[Larry's Array](#)			
[Short Palindrome](#)			
[65. Valid Number](#)			
[Nth Fibonacci](#)			
# Operational Programming Problems			
[Kangaroo Problem](#)			
[Breaking Records](#)			
[Find A String](#)			
[itertools.permutations()](#)			
[No Idea!](#)			
[Days of the programmer](#)			
[Leaderboard](#)			
[Word Order](#)			
[Sherlock And Squares](#)			
[Equalize The Array](#)			
[Apples And Oranges](#)			
[More Operational Style Questions](#)			

System Design Videos

Tiny url			
Parking Lot System			
Whats App			
Uber design			
Instagram			
Tinder Service			

Courses

The Coding Interview Bootcamp: Algorithms + Data Structures			
Data Warehouse Concepts: Basic to Advanced concepts			
Data Structures and Algorithms Bootcamp			
Data Structures and Algorithms - The Complete Masterclass			

Books

Cracking The Code			
The Algorithm Design Manual			
The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, 3rd Edition			

Other Resources

Learning Data Science: Our Top 25 Data Science Courses

The Best And Only Python Tutorial You Will Ever Need To Watch

Engineering Dashboards, Metrics And Algorithms Part 2

Read Last Weeks Top Ten Article For Python Libraries

The Best And Last Python Tutorial You Will Ever Watch

How Algorithms Can Become Unethical and Biased

Dynamically Bulk Inserting CSV Data Into A SQL Server

4 Must Have Skills For Data Scientists

SQL Best Practices—Designing An ETL Video