

**Books :**

Designing Data-Intensive Applications (Book by Martin Kleppmann)

<https://sre.google/books/> - building secure and reliable systems, The site reliability workbook.

Understanding Distributed Systems by Microsoft principal engineer Roberto Vitillo  
System Design interview by Alex Yu

**Github Repos :-**

[donnemartin/system-design-primer](#): Learn how to design large-scale systems. Prep for the system design interview. Includes Anki flashcards.

[checkcheckzz/system-design-interview](#): System design interview for IT companies

[binhnguyennus/awesome-scalability](#): The Patterns of Scalable, Reliable, and Performant Large-Scale Systems

[theanalyst/awesome-distributed-systems](#): A curated list to learn about distributed systems

[kilimchoi/engineering-blogs](#): A curated list of engineering blogs

System Design Cheatsheet : [System Design Cheatsheet · GitHub](#)

Distributed Systems Reading List : <http://dancres.github.io/Pages/>

**You Tube :-**

<https://www.youtube.com/c/SystemDesignInterview>

[https://youtube.com/playlist?list=PLOAph0xkZvSuqy8yq\\_0D6NEABhmSTRYrN](https://youtube.com/playlist?list=PLOAph0xkZvSuqy8yq_0D6NEABhmSTRYrN)

<https://www.youtube.com/playlist?list=PLrmLmBdmllps7GJJWW9I7N0P0rB0C3eY2>

<https://www.youtube.com/playlist?list=PLMCXHnjXnTnvo6aISjVkgxV-VH6EPyvoX>

<https://www.youtube.com/playlist?list=PLiGfHui5RvzwhSqMm4bSmDW5-jCOTBQJD>

<https://www.youtube.com/c/SDESkills>

10 minute YouTube videos

<https://www.youtube.com/playlist?list=PLdsOZAx8I5umhnn5LLTNJbFgwA3xbycar>

System Design Mock Interview: Design Instagram

<https://www.youtube.com/watch?v=VJpfO6KdyWE>

**Websites :-**

Dynamo: [https://www.allthingsdistributed.com/2007/10/amazons\\_dynamo.html](https://www.allthingsdistributed.com/2007/10/amazons_dynamo.html)

[High Scalability -](#)

[Introduction to architecting systems for scale. | Irrational Exuberance](#)

[gainlo.co System Design Interview Questions](#)

[Practice System Design](#) : Only Questions

[the morning paper | a random walk through Computer Science research, by Adrian Colyer](#)

[Netflix TechBlog](#)

[Web Architecture 101. The basic architecture concepts I wish... | by Jonathan Fulton | Storyblocks Engineering](#)

[HiredInTech's Training Camp for Coding Interviews](#)

[Facebook interview experiences - All Combined from LC - Till Date 07-Jun-2020](#)

[Systems Design Interview Guide · Patrick Halina](#)

[Preparing for the Systems Design and Coding Interview](#)

[Grokking the Mobile System Design interview | by Artem Goncharov | Medium](#)

<https://www.notion.so/asquare14/b553d3c379bd4f638bdee1c64c76786b?v=a5a5022e1b534b65b4eddb836ecddf9e>

Leetcode design tagged : [Design](#)

Grokking - [Grokking the System Design Interview - Learn Interactively](#)

Nathan Bronson's Tao: [TAO: Facebook's Distributed Data Store for the Social Graph](#)

Nishtala's memcache: [Scaling Memcache at Facebook | USENIX USENIX](#)

Kulkarni's Facebook live: [Scaling Facebook Live Videos to a Billion Users](#)

Aroskar's Zuul push: [Scaling Push Messaging for Millions of Devices @Netflix](#)

Krikorian's timelines at scale: [Twitter: Timelines at Scale](#)

Cassandra's capacity planning guidelines by datastax: [Capacity planning and hardware selection for DataStax Enterprise implementations | DSE Planning guide](#)

Guide to crack the System Design interview : [The complete guide to crack the System Design interview](#)

<https://www.linkedin.com/pulse/cracking-system-design-interview-gaurav-savla-pmp-/>

### **Tools :**

<https://excalidraw.com/>

LucidCharts

Draw.io

Hackerank whiteboard.

### **Mock Interview:**

<https://www.sdeskills.com/2020/07/26/mock-interviews.html>

Pramp

InterviewBit

## **SDE Skills Recommendations**

What to cover in system design - <https://youtu.be/ql8vjyiwDU>

System Design Intro - Broad strokes - <https://youtu.be/QObXrq2N6V8>

Awesome spread of topics / concepts - Slides: <http://bit.ly/sys-design-feb10> , P1

<https://youtu.be/hsKwilc7EXU>, P2 <http://youtu.be/gqVzByEtwcl>

System design primer - <https://github.com/donnemartin/system-design-primer>

[Cloud design patterns - Azure Architecture Center](#)

Data Intensive Applications with Martin Kleppmann Podcast -

<http://youtu.be/grGqCuTcu50>

Yet another list of things - [https://github.com/shashank88/system\\_design](https://github.com/shashank88/system_design)

Designing Data Intensive Applications Book

Martin Kleppmann Blog/Website (<https://martin.kleppmann.com/>)

Raft Paper <https://www.cs.utah.edu/~stutsman/cs6450/public/papers/raft-extended.pdf>

Dynamo Paper <https://www.cs.utah.edu/~stutsman/cs6450/public/papers/dynamo.pdf>

System Design - Evernote -

<https://www.evernote.com/shard/s576/sh/75fbe53c-baed-47ca-9f58-a44038c63468/05d51df458ea2cff>

Cloud Design Patterns - <https://docs.microsoft.com/en-us/azure/architecture/patterns/>

SDE Skills System Design AMA Notes -

<https://www.sdeskills.com/2020/08/13/ama-systemdesigninterviews.html>

Building No Sql Databases based on query pattern (DynamoDB) -

<https://youtu.be/HaEPXoXVf2k>

Non Software Examples of Design Patterns -

<https://www.cs.uni.edu/~wallingf/teaching/062/sessions/support/pattern-examples.pdf>