

CheatSheet: Well-Known Papers For IT Industry

INTERVIEW

- PDF Link: [cheatsheet-paper-A4.pdf](#), Category: interview
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-paper-A4>
- Related posts: CheatSheet: Leetcode For Code Interview, interview

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1.1 Papers: Distributed System

Num	Name	Summary
1	Amazon Dynamo: HA K/V store	paper: amazon-dynamo.pdf (Original link)
2	Google File System	paper: google-gfs.pdf (Original link)
3	Google MapReduce	paper: google-mapreduce.pdf (Original link)
4	Google Bigtable: distributed storage	paper: google-bigtable.pdf (Original link)
5	Google Spanner: Globally-distributed db	paper: google-spanner.pdf (Original link)
6	Facebook Cassandra: Decentralized storage	paper: facebook-cassandra.pdf (Original link)
7	Yahoo Zookeeper: Coordination	paper: yahoo-zookeeper.pdf (Original link)
8	Yahoo Hadoop Distributed File System	paper: yahoo-hdfs.pdf (Original link)
9	Ceph: a distributed file system	paper: ceph.pdf (Original link)
10	Yahoo Zab: broadcast for primary-backup systems	paper: yahoo-zab.pdf (Original link)
11	Linkedin Kafka: distributed messageing system	paper: linkedin-kafka.pdf (Original link)
12	Facebook tao: distributed data store for social graph	paper: facebook-tao.pdf (Original link)
13	Facebook Haystack: Facebook photo storage	paper: facebook-haystack.pdf (Original link)
14	Facebook Gorilla: Time Series Database	paper: facebook-gorilla.pdf (Original link)
15	Facebook unicorn: search the social graph	paper: facebook-unicorn.pdf (Original link)
16	Google search engine	paper: google-search.pdf (Original link)
17	Google Chubby: Lock service	paper: google-chubby.pdf (Original link)
18	Google Maglev: Google load balancer	paper: google-maglev.pdf (Original link)
19	Google Andromeda: Google cloud network virtualization	paper: google-andromeda.pdf (Original link)
20	Google B4: Google SDN Network	paper: google-b4.pdf (Original link)
21	Google dapper: distributed system tracing	paper: google-dapper.pdf (Original link)
22	Google Pregel: large-scale graph processing	paper: google-pregel.pdf (Original link)
23	Google Borg: container orchestration	paper: google-borg.pdf (Original link)
24	Mesos: A platform for fine-grained resource sharing	paper: mesos.pdf (Original link)
25	Transactions in a Distributed Key-Value Store	paper: deepakn.pdf (Original link)
26	Sun NFS: network filesystem	paper: sun-nfs.pdf (Original link)
27	Memory management: A unified theory of garbage collection	paper: ibm-garbagecollection.pdf (Original link)
28	Amazon redis Cache	paper: amazon-redis.pdf (Original link)
29	Chord: p2p lookup service	paper: chord.pdf (Original link)
30	Akamai CDN Network	paper: akamai.pdf (Original link)
31	MDCC: Multi-Data Center Consistency	paper: mddc.pdf (Original link)
32	Warp: Multi-key transactions for key-value stores	paper: warp.pdf (Original link)

1.2 Papers: Algorithm & Protocols

Num	Name	Summary
1	Consistent Hashing	paper: consistent-hashing.pdf (Original link)
2	Paxos	paper: paxos-simple-Copy.pdf (Original link)
3	Byzantine Generals Problem	paper: Byzantine Generals Problem.pdf (Original link)
4	Raft	paper: raft.pdf (Original link)
5	Gossip	paper: A gossip-style failure detection service.pdf (Original link)
6	Hyerloglog	paper: hyerloglog.pdf (Original link)
7	CDRTs	paper: A comprehensive study of CDRTs.pdf (Original link)
8	CSP	paper: Communicating Sequential Process.pdf (Original link)
9	Cuckoo Hashing	paper: An Overview of Cuckoo Hashing.pdf (Original link)
10	Fenwick Tree	paper: Fenwick Tree.pdf (Original link)
11	Epidemic Broadcast Trees	paper: Epidemic Broadcast Trees.pdf (Original link)

1.3 More Resources

Name	Summary
Reference	Github: papers-we-love, Website: the morning paper
Reference	CheatSheet: System Design For Job Interview
Reference	CheatSheet: LeetCode Common Templates & Common Code Problems

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