Algorithms You Should Know Before You Take System Design Interviews

These algorithms aren't just useful for acing system design interviews - they're also great tools for building real-world systems.

I	Algorithms you should know before system design interviews			
	Algorithm	How it Works	Priority	Use Cases
	Geohash	91 91 90 15 11 91 11 11 9100 97 10 11 07 11 10 9001 90 11 15 07 11 10 9000 90 10 15 15 17	****	Location based service
	Quadtree		****	Location based service
	Consistent Hashing	O	****	Balance the load within a cluster of services
	Leaky bucket	<u></u>	****	Rate limiter
	Token bucket		****	Rate limiter
	Trie	0.00 0.00 0.00 0.00 0.00 0.00	****	Search autocomplete
	Rsync		***	File transfers
50	Raft/Paxos		***	Consensus algorithms
	Bloomfilter	01011110011	***	Eliminate costly lookups
	Merkle tree		****	Identify inconsistencies between nodes
53-	HyperLogLog	20000000000000000000000000000000000000	* * * * * * *	Count unique values fast
See	Count-min sketch		* ~ ~ ~ ~ ~	Estimate frequencies of items
	Hierarchical timing wheels		****	Job scheduler
	Operational transformation	\	****	Collaborative editing

We made a video on this topic. The video contains an updated list and provides real-world case studies.