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Lecture 05 - Future of Database

- 1. Distributed Data
- 2. Blockchain
- 3. NoSQL
 - 1. MongoDB
 - 2. Cassandara (Facebook / Microsoft)
 - 3. Redis
 - 4. CouchDB
 - 5. Hash Data Stores
- 4. Hardware Sort
- 5. More AI GPT-3 as a front end
- 6. Performance, 50,000 TPS easy 1M TPS about \$25,000 in hardware 10M TPS \$200,000 in harware 100M TPS \$100k-\$500k (small) per month (leased)
- 7. Network Database
- 8. Time Series Database
- 9. Text Search (ElastiSearch)

Important things to remember.

- 1. Data is forever. The same database at a bank that is there now will need to be there 30 to 50 years from now.
- 2. Migration to new systems is rare to non-existent.
- 3. We are dealing with a very hard to test system.
- 4. Maintenance / long term is the key.

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