Final Review for CS 562

Final

- Exam will be Take Home.
- It will be released Tuesday, May 5, 2020 at 5PM EST and you will have 48 hours to complete.
- You need to submit your answers by Thursday, May 7, 2020 at 5PM EST using Gradescope.
- OPEN NOTES, SLIDES, BOOKS, etc

- Study the topics (all lecture notes, papers, and chapters) that we covered after March 16, 2020:
  - March 16, 2020 to April 27, 2020.

Material to study

- Time Series Databases
  - Time Series distance functions and Indexing
- Multimedia DBs and M-tree
- Text databases and retrieval: Boolean search and Vector Model
- LSI and SVD
- Dimensionality Reduction
  - FastMap, SVD, and Random Projections
- Cloud Computing and Map-Reduce
- Map-Reduce Algorithms
- Map-Reduce and Databases
- Map-Reduce and Graph Data
- Counting triangles with Map Reduce
- Pig, Hive, Pregel, and Spark
- Minimal Map Reduce Algorithms
  - Terasort, Prefix sum, Prefix min, and Skyline

In more details

- Lecture notes and slides from May 16 to April 27, 2020

- Papers and chapters:

    - DTW and M-tree (Chapter and Paper)

    - LSI chapter and FastMap paper

    - Map Reduce Book:

        - Chapters 1,2,3, and 5

     - Counting triangles with Map Reduce paper

    - Pig, Pregel, and Spark paper

    - Minimal Map Reduce Algorithms paper