

Complete Roadmap to become a Software Engineer

**FASTEAST WAY TO BECOME A SOFTWARE
ENGINEER FROM ZERO KNOWLEDGE**



Santosh Kumar Mishra
[@iamsantoshmishra](https://twitter.com/iamsantoshmishra)





Santosh Kumar Mishra
@iamsantoshmishra

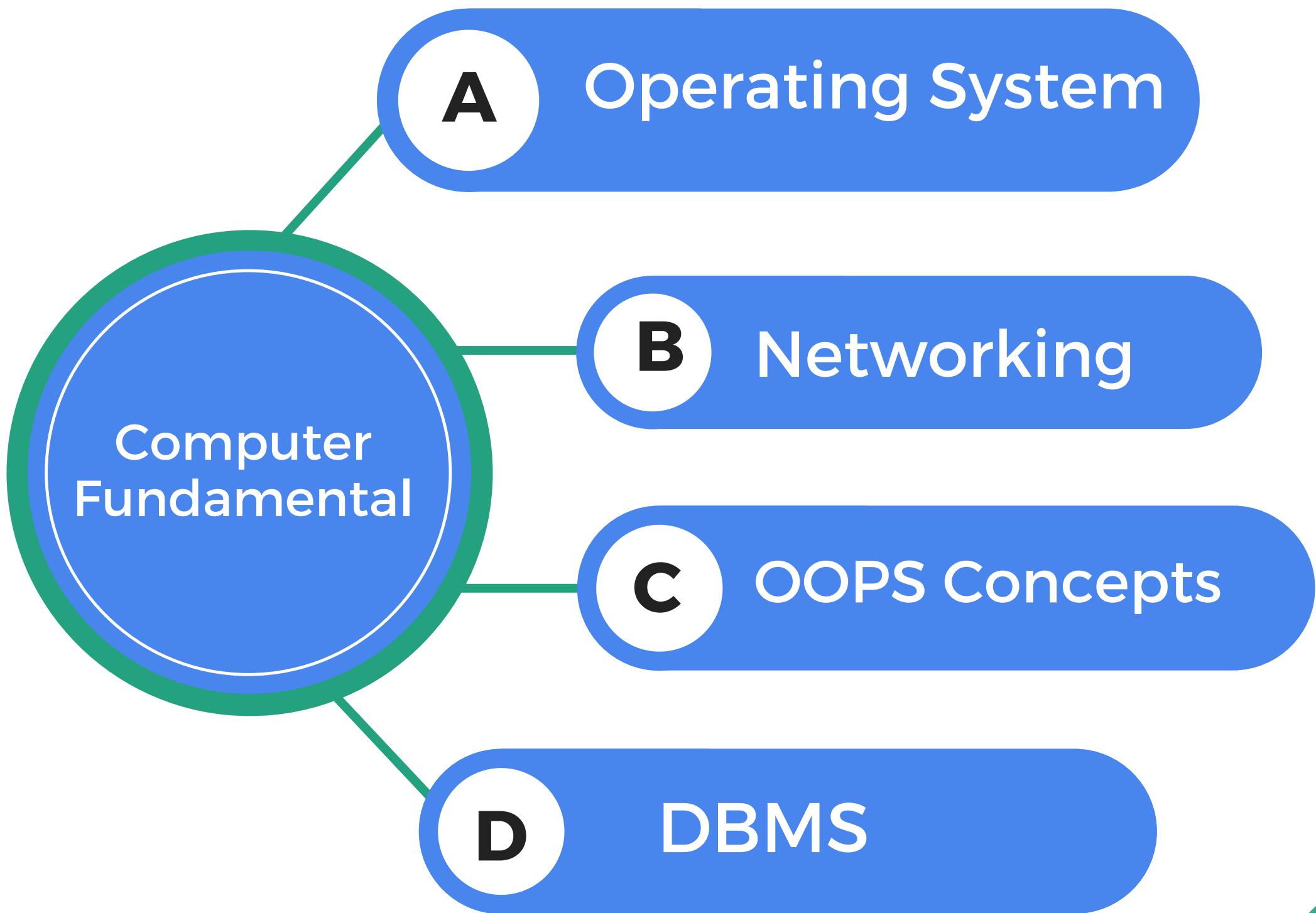
SOFTWARE ENGINEERING SYLLABUS

- Computer Fundamental
- Data Structure and Algorithm (DSA)
- System Design (HLD & LLD)





Santosh Kumar Mishra
in @iamsantoshmishra

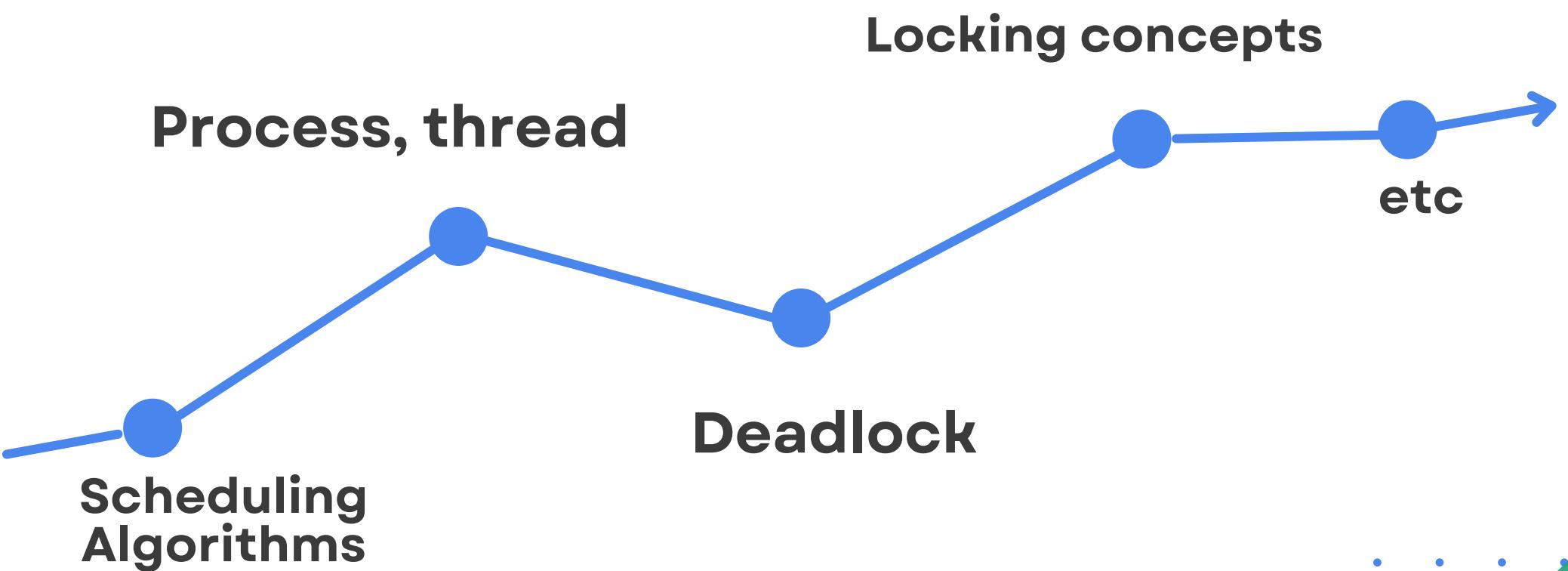




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OPERATING SYSTEM

Resource:-Galvin OS Book and online resources like YouTube and blogs, etc

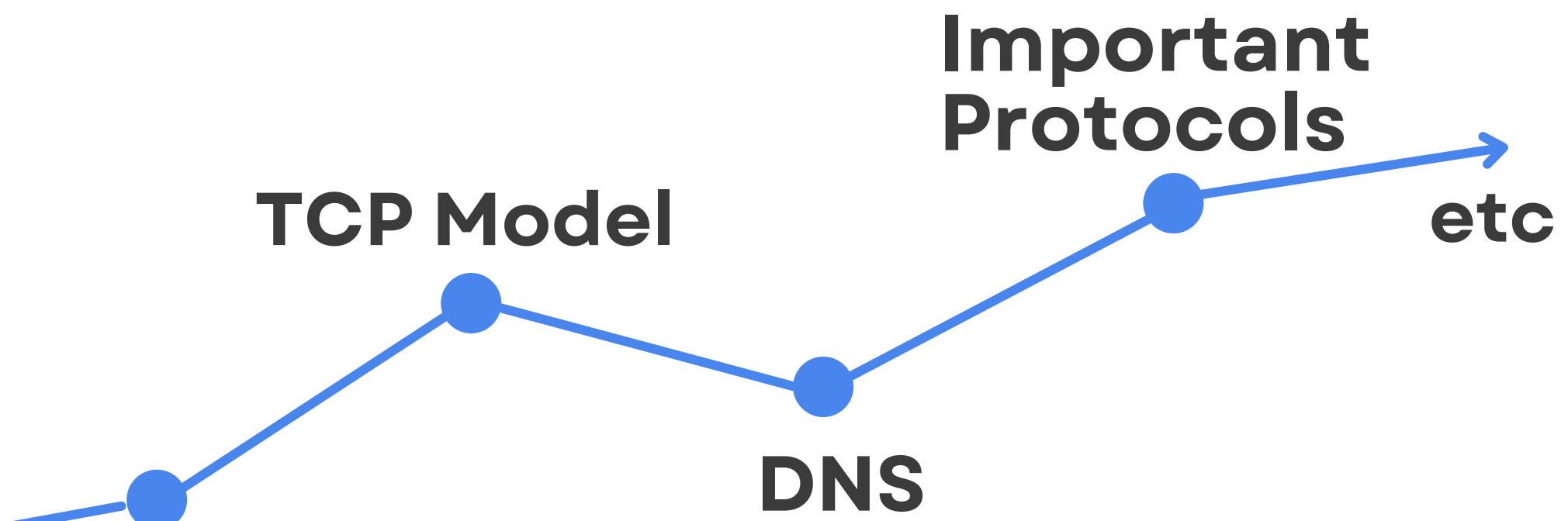




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NETWORKING

Resources: You can refer to various YouTube channels and important online blogs, etc

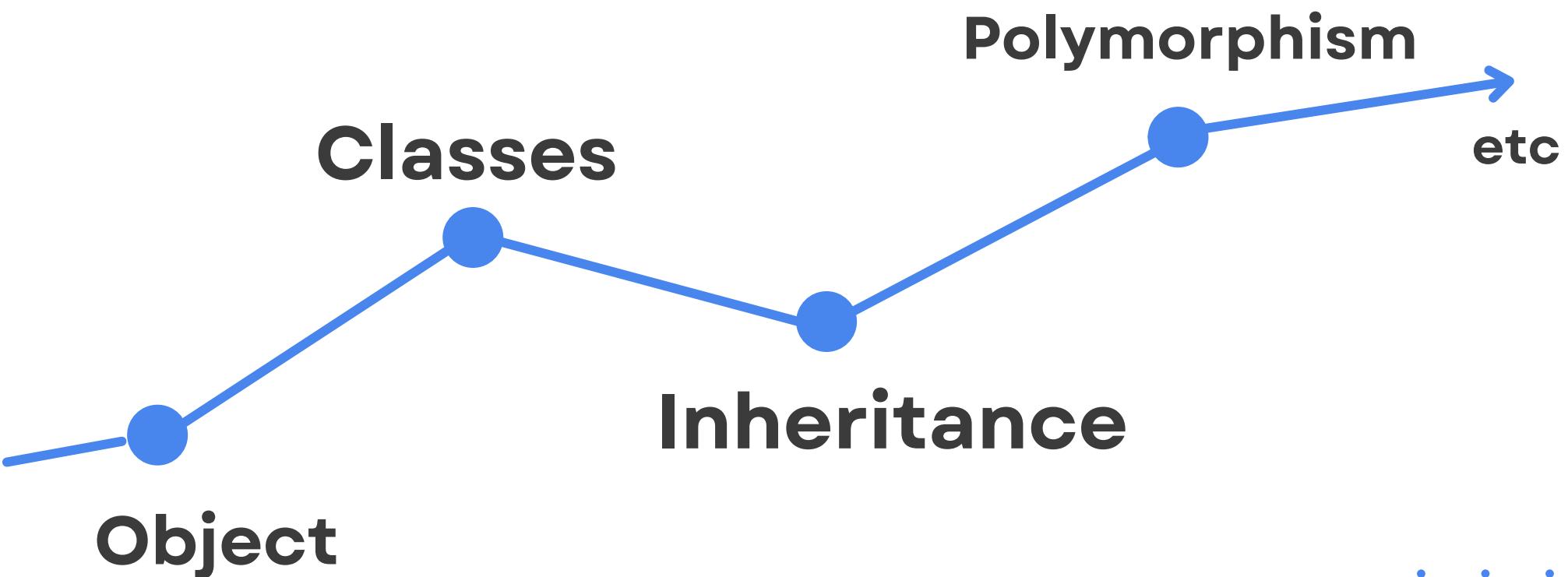




Santosh Kumar Mishra
@iamsantoshmishra

OOPS CONCEPTS

Resources:- Head first Object Oriented Analysis and Design book and Online resources like YouTube and blogs, etc

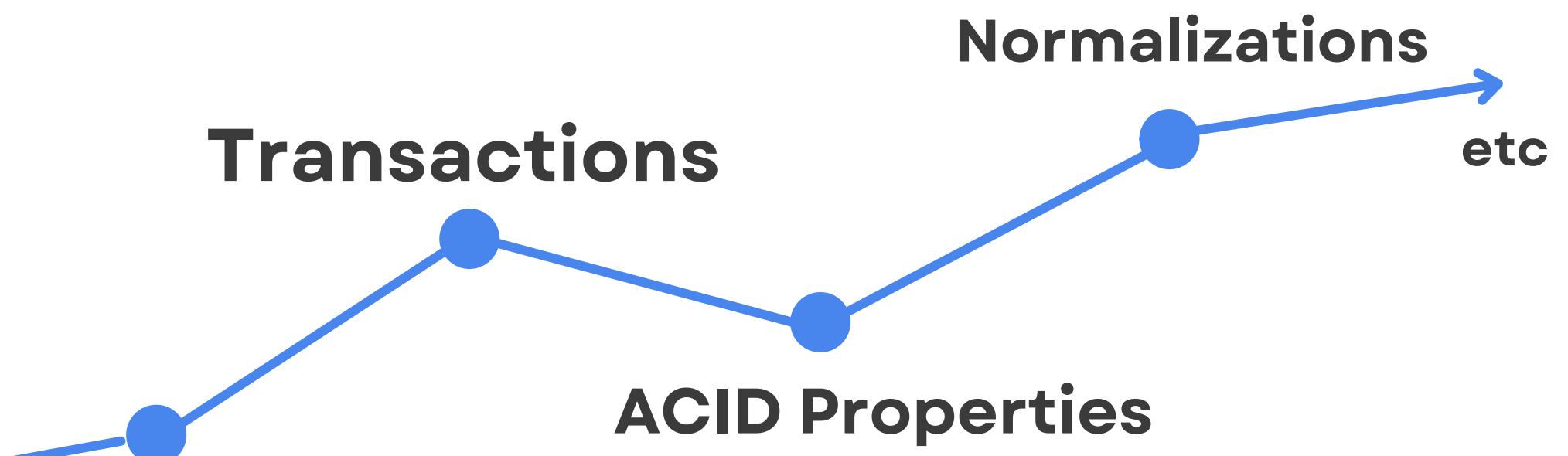




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DBMS

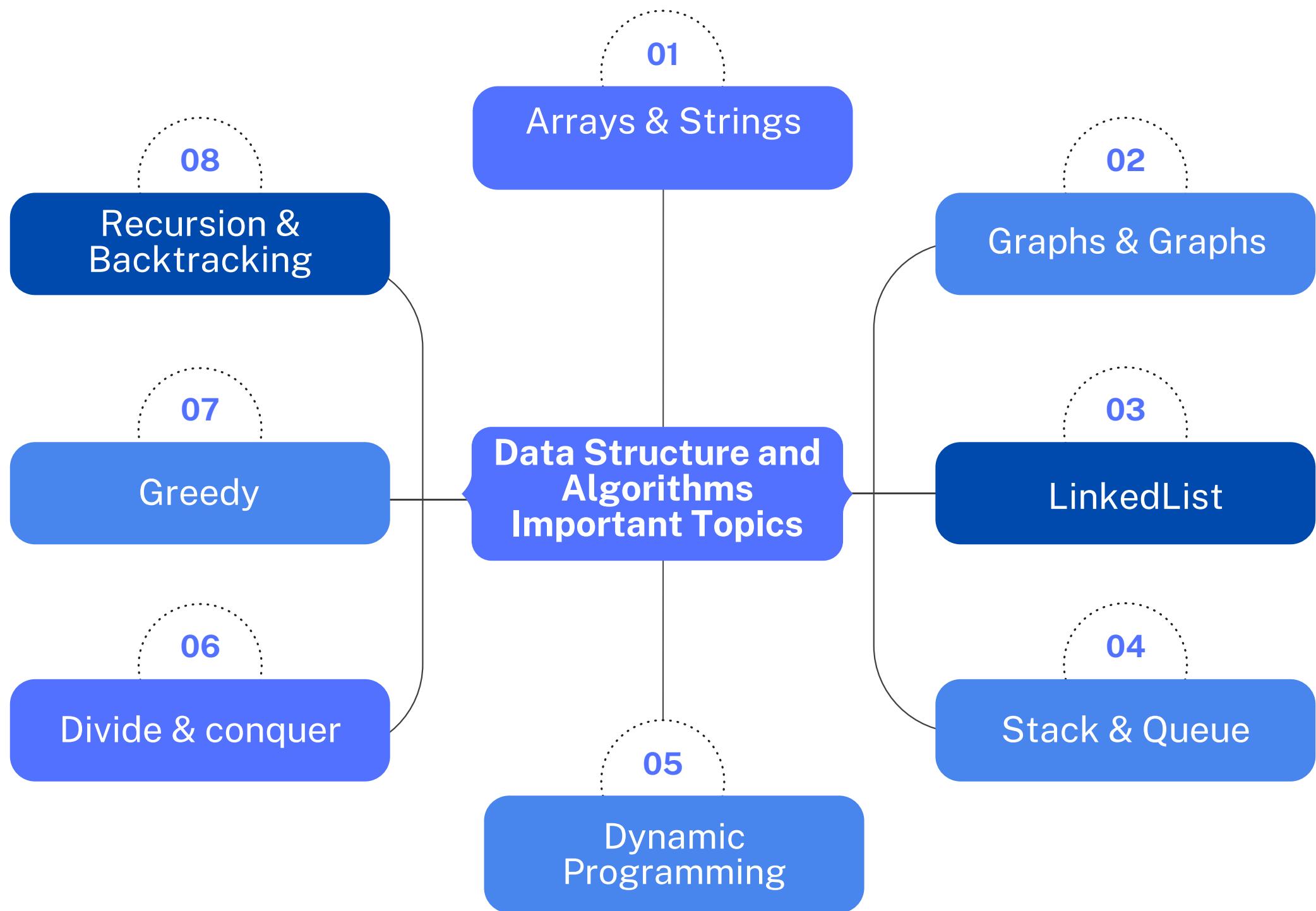
Resources:- You can refer to various YouTube channels and important online blogs, etc



DATA STRUCTURE AND ALGORITHMS (DSA)



Santosh Kumar Mishra
@iamsantoshmishra





Santosh Kumar Mishra
@iamsantoshmishra

LEARNING & PRACTICE PLATFORMS FOR DSA

Competitive Programming

- Hacker rank
- Hacker earth
- Codechef
- Code force

Learning & Practice

- LeetCode
- GeeksForGeeks

These all are very good platforms you can start from anyone of these.





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@iamsantoshmishra

SYSTEM DESIGN

There are two components in system design:-

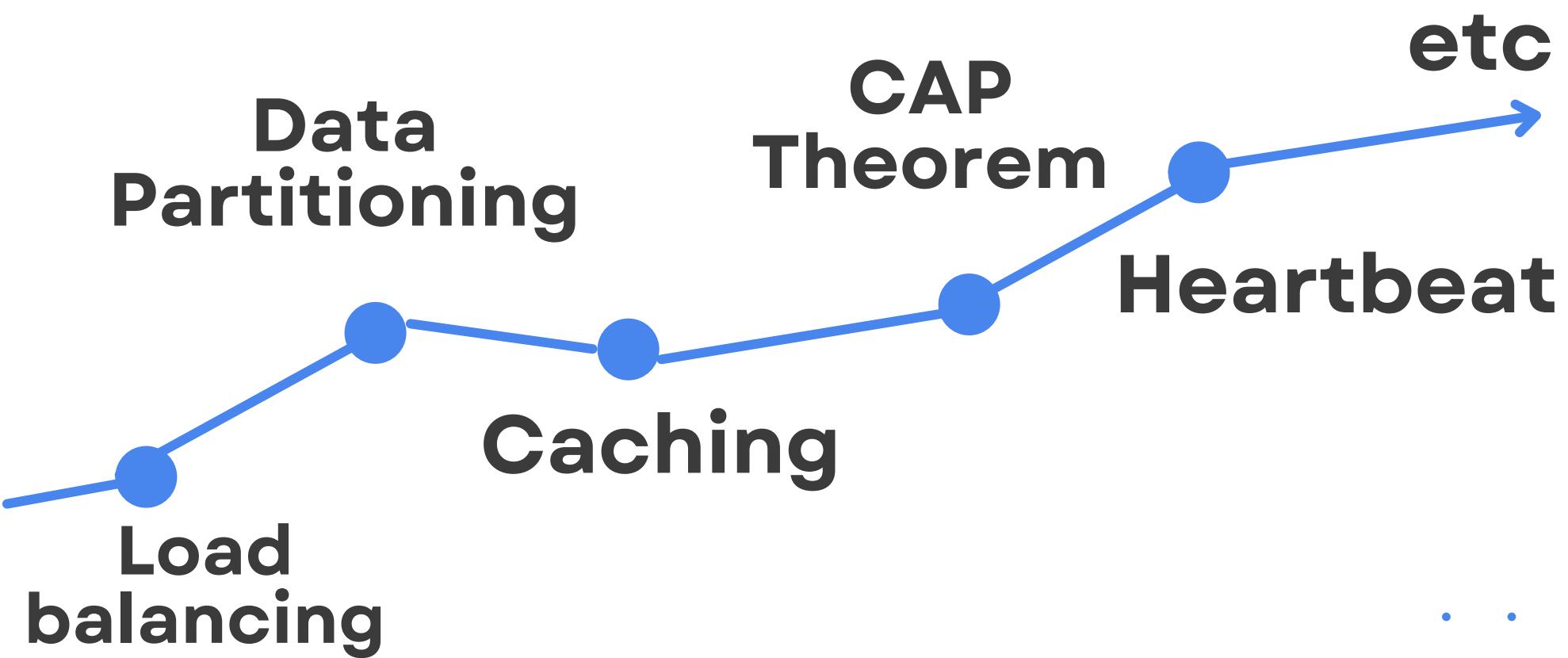
- System Design (HLD)
- System Design (LLD)





SYSTEM DESIGN (HLD)

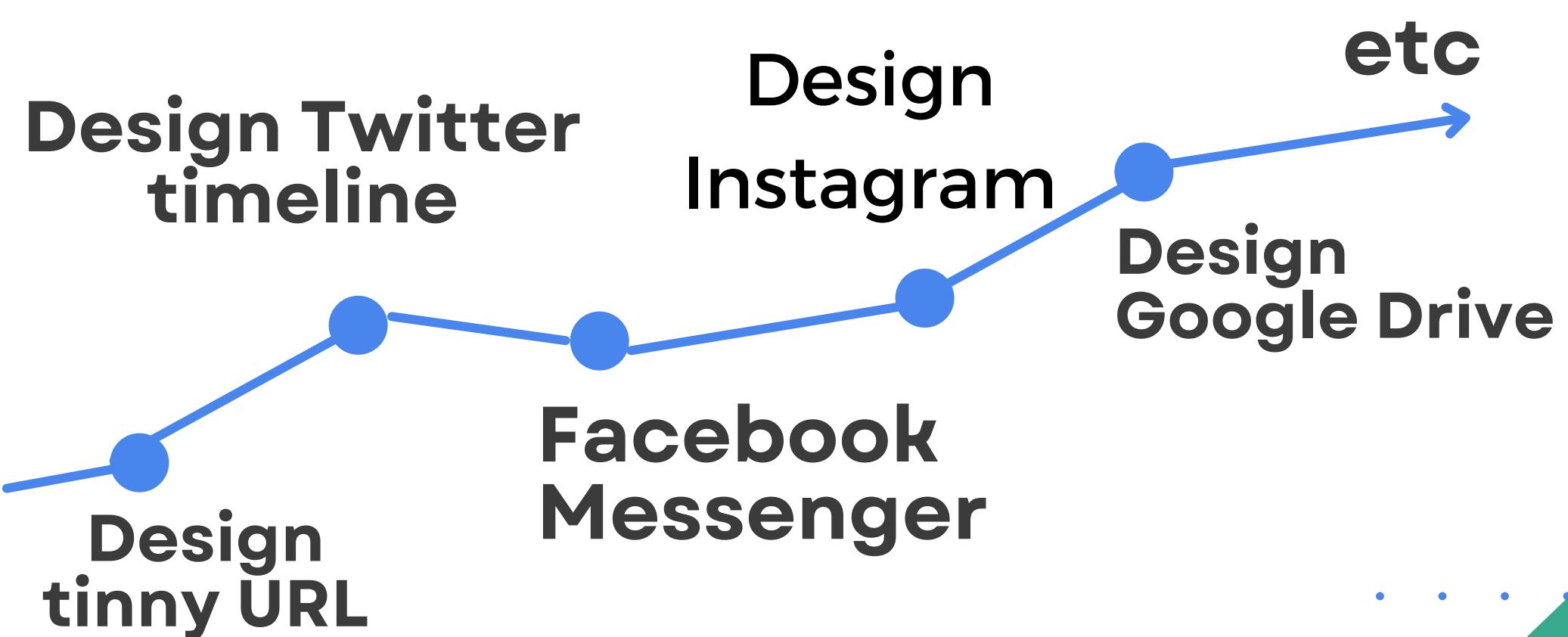
You should first learn Basic system design concepts like:





SYSTEM DESIGN (HLD)

Once you learn the basic concept then you can start practicing some important **Real-time questions** system design questions like:

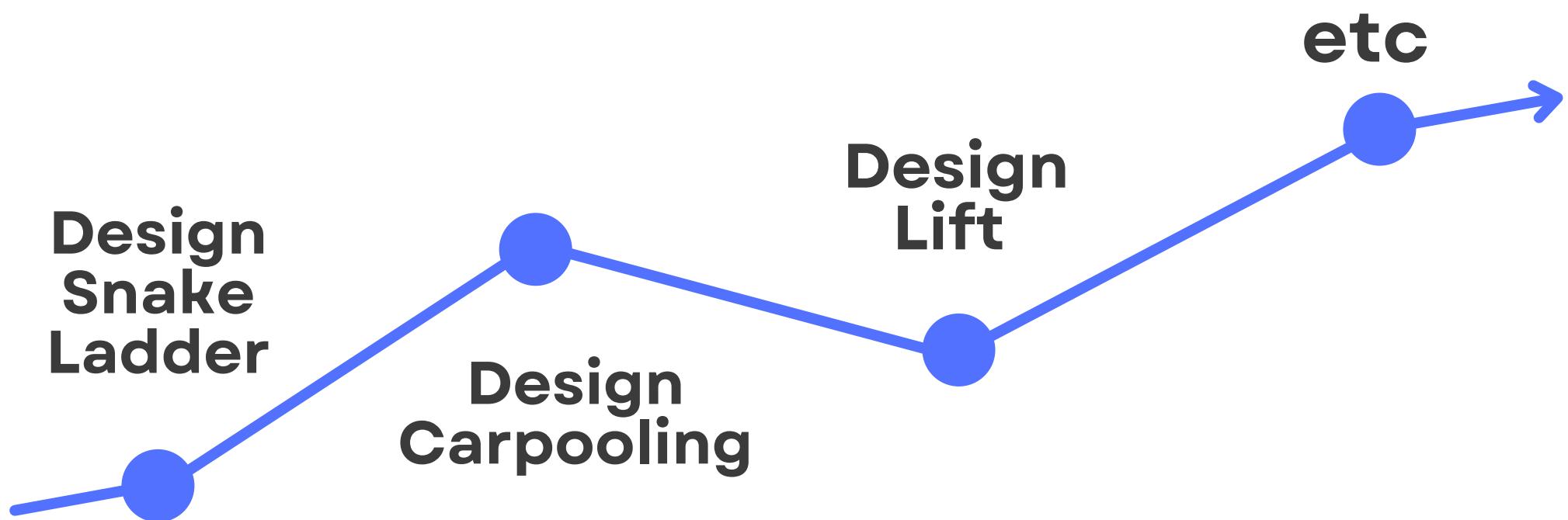


Resources: There are various YouTube channels, and online blogs that You can refer to for System Design (HLD)

Santosh Kumar Mishra
@iamsantoshmishra

SYSTEM DESIGN (LLD)

Some companies like **Flipkart** ask low-level system design questions like:



Resources: Head first Design Pattern & Gang of four books, YouTube channel, online blogs, etc



Santosh Kumar Mishra
@iamsantoshmishra



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