Dibyendu's Interests, Goals and ...
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Summary :

0.1   Pro Stuff :

- **Zone : Core Professional for Survival -** Enterprise Architecture, Software Architecture, Infrastructure/Cloud Architecture, Design Patterns, Software Engineering Practice, Core Programming Paradigms, Databases, Information Retrieval, Machine Learning Stack and Networking.

- **Zone : Core Domain of Economics and Finance -** Basic Economic Models, Finance Core from Mehrling, Banking, Payment Systems and Blockchain derivatives.

- **Zone : Product Dev -** Use graph database, latest Dev tools, new language to create a CMDB and a architecture depedency management tool all the way to code level views; SE evolution demo for all layers of the stack.

- **Zone : Beauty of Math/CS -** Optimization and Distributed Computation

0.2   Interests :

- **Zone : Theory of Computation -** Models of computaiton from Turing Machine, Lambda Calculus, CCS, π-calculus, Actors etc.; Computational Complexity, Algorithms, Distributed Computation, Logic, Category Theory, Formal methods applications.

- **Zone : Physics and EE/Energy -** From first principles derive equations representing phenomena and energy sustainability; understand YM-MGH Claymath problem.

- **Zone : Biology and Healthcare -** Life, evolution, gene and future of healthcare using technology writings.

- **Zone : Automobiles and Flight -** Evolution of automobiles, Evolution and design of airplanes, launch vehicles and spacecrafts.

- **Zone : Control Theory -** Summary of core models, results, insights, eras/genrres, overlaps; understand Witsenhausen Counterexample state of the art.

Core Books :

1. Ajay Khemkalyani and Mukesh Singhal, *"Distributed Computation"*, 2009.

2. M. Herlihy and Nir Shavit, *"Art of Multiprocessor Prgramming"*, 2012.

Core Papers :

1. Alan Turing, *"On Computability and..."*, Journal of the..., 1936.