# Systems Design Primer

Read the systems design primer thoroughly!

Answer the following questions in a few sentences:

## What is the difference between latency and throughput?

## What would you design a AP or a CP System?

## What is replication, failover and how does Redis replication work?

## What would be the perfect database / database model for your SWT PET project if you would have to scale large and having some 10.000 clients?

## What are the advantages and disadvanteges of (web) caching?

## What is the difference between RPC and Rest?

## How many cores does the Stackoverflow Servers have, with what chip Hz and how many MB L2 cache?

# GPU

How would you get a simple GPU "Hello World" Example run on Google or AWS? (theoretically. Not practically!)