Agenda

1. Microservice architecture
   1. What was an old fashion
   2. What is new microservices
   3. Containerizing (Compose)
   4. Api gateway
   5. Resiliency
   6. MS on cloud
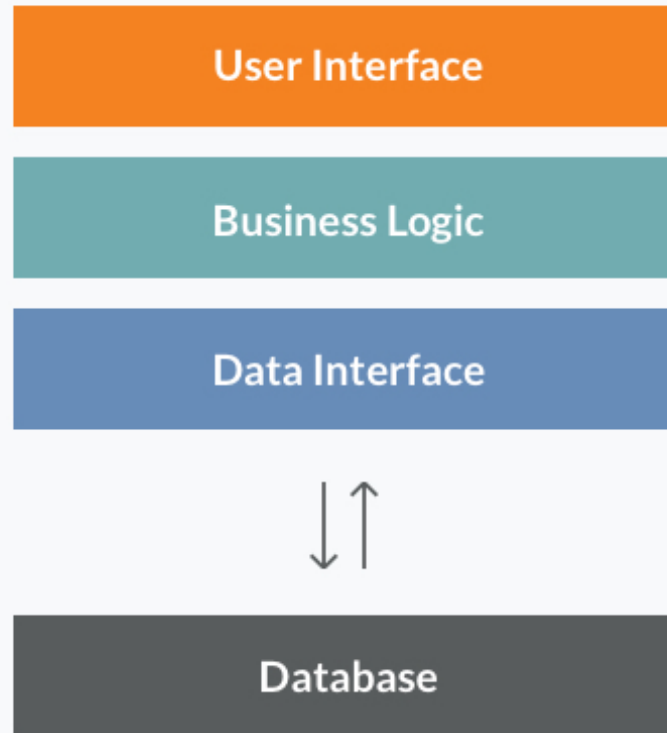
2. Which books to read

3. Interview preparation

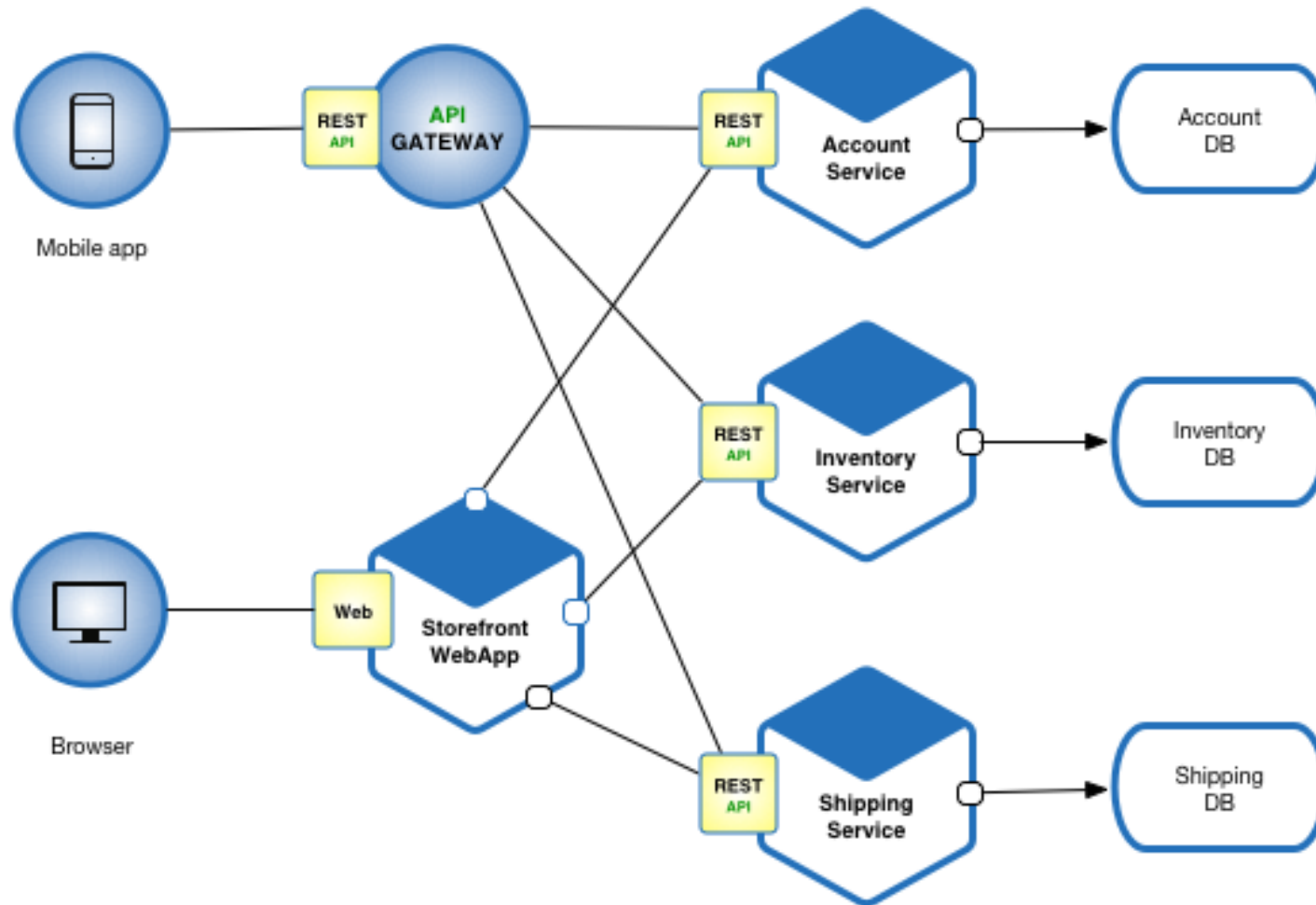4. Karriere im Deutschland.

# Who am I?

- Emin Hasanov

# Old fashion and disadvantages



- App is too large complex to understand and fix problems
- Redeploy per each issue whole application
- Continuous deployment not easy
- Scaleing difficult and dangerous
- One bug can stop whole application
- Bring new tech is very expensive
- Team allocation problems
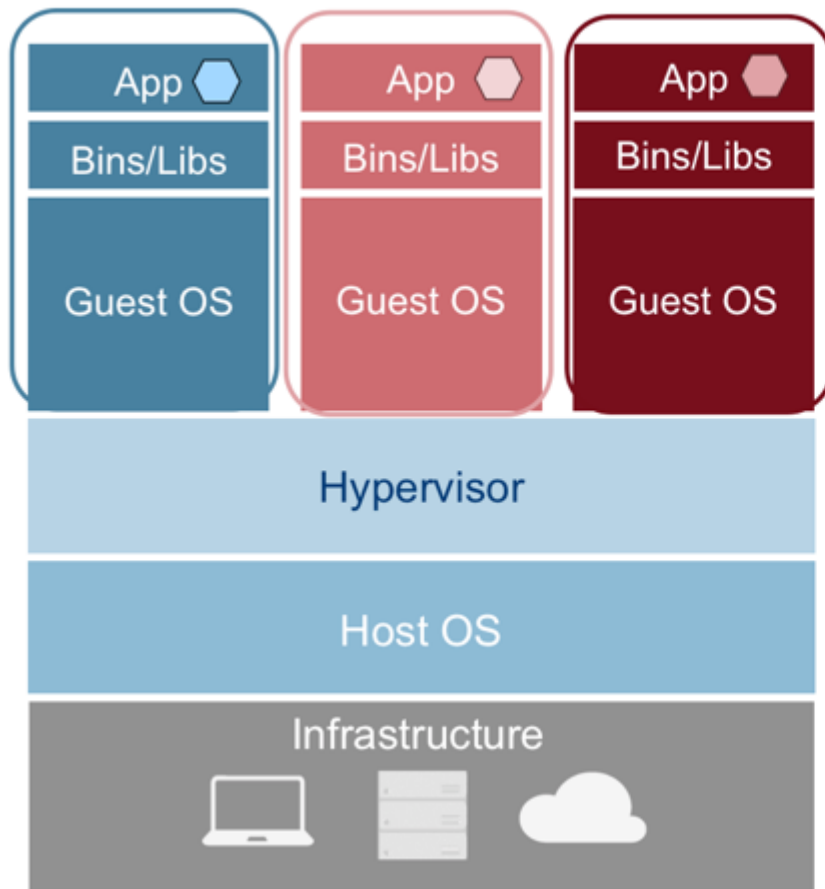- Not responsible as needed.
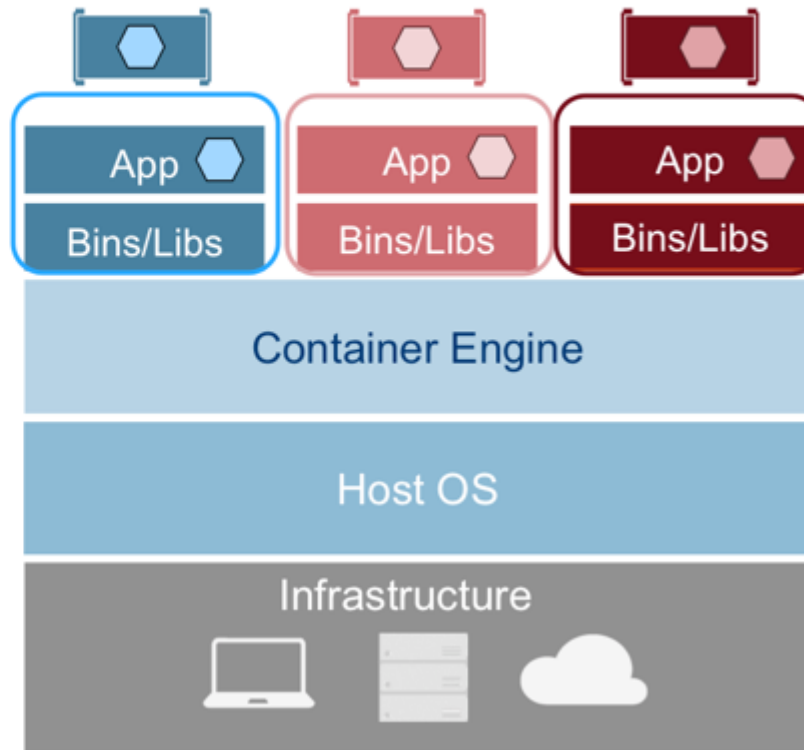
# Microservices or SOA



- Single responsibility
- Loosely coupled elements
- Developed independently
- Easy to understand/find problem
- Independed deploy
- CI/CD easy
- Open for new tech
- Polyglot
- Containerized
- Enable to have N clients
- Versioning
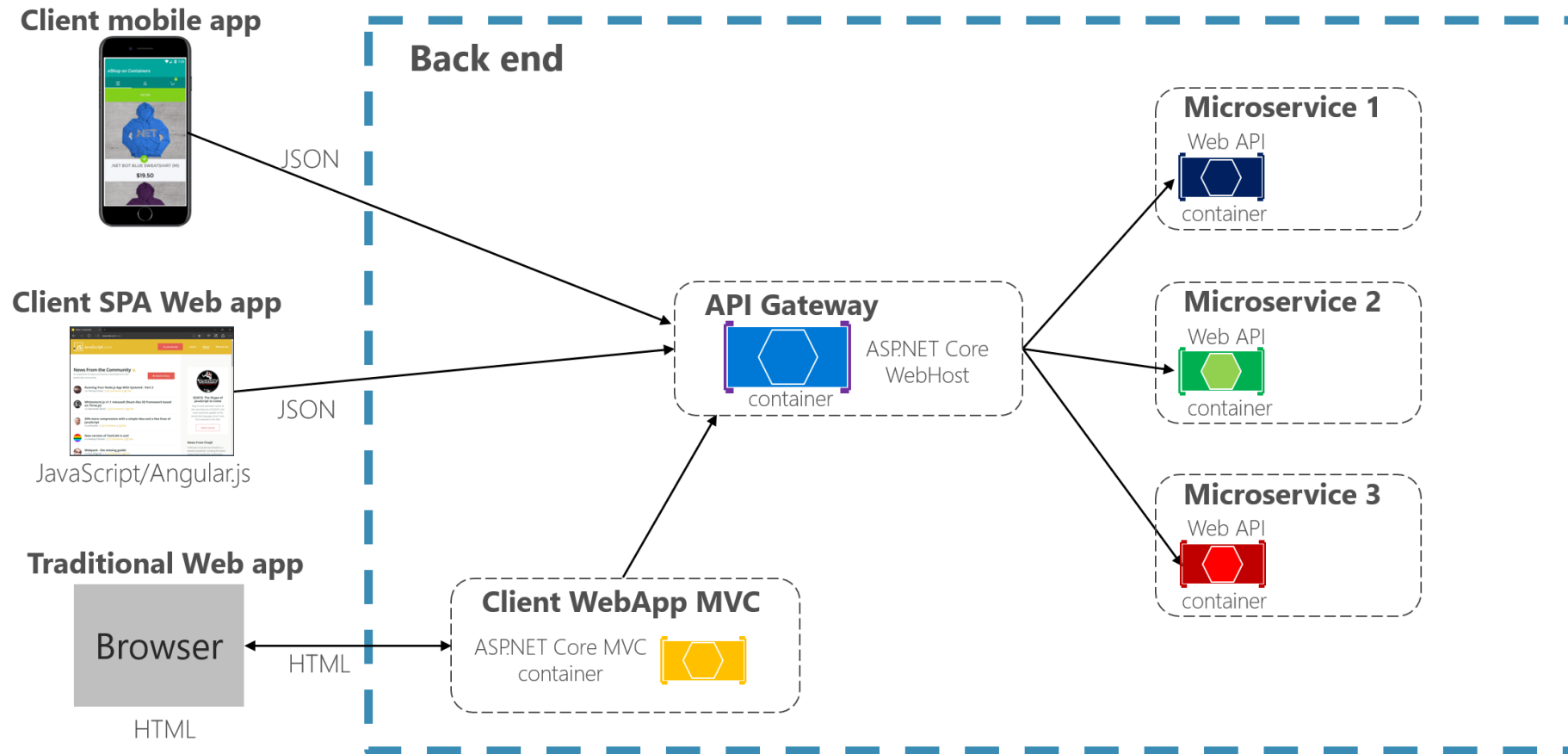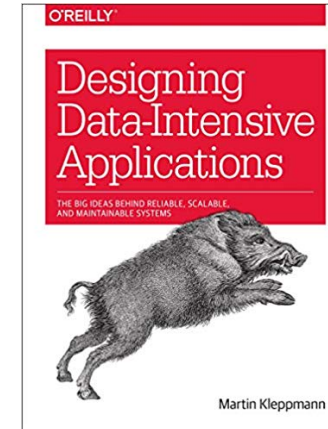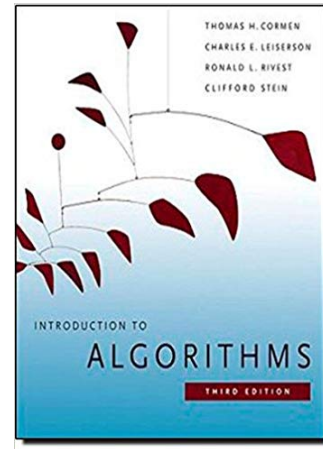- Inner Publish/Subscribe mechanism
- CQRS pattern

# Containers

# API Gateway

# Interview tricks

- Learn Algorithms!!!!!!!!!
  - Datastructures!!!!!!!!
  - Problem solving methods.
  - Understand time complexity
- SOLID Principles
- OOP, Design patterns, Container, Agile, CI/CD, Git, SaaS, PaaS, IoT
- Play on hackerrank hakos
- Have stackoverflow reputation
- OpenSource projects in github account.

# Books



Building Microservices — Sam Newman



.NET Microservices: Architecture for Containerized .NET Applications — Cesar de la Torre, Bill Wagner, Mike Rousos, Microsoft Corporation



Introduction to Algorithms, Third Edition — Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein



Designing Data-Intensive Applications — Martin Kleppmann



Cracking the Coding Interview, 6th Edition — Gayle Laakmann McDowell

# Job search

- To have a good CV
- https://www.stepstone.de/
- https://www.glassdoor.de/index.htm
- Linkedin
- https://www.xing.com/app/startpage