𝐁𝐞𝐜𝐨𝐦𝐞 𝐒𝐲𝐬𝐭𝐞𝐦 𝐃𝐞𝐬𝐢𝐠𝐧 𝐆𝐮𝐫𝐮 𝐢𝐧 𝐉𝐮𝐬𝐭 8 𝐖𝐞𝐞𝐤𝐬 💥  
  
𝐖𝐞𝐞𝐤 1️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘚𝘤𝘢𝘭𝘢𝘣𝘪𝘭𝘪𝘵𝘺, 𝘈𝘗𝘐 𝘎𝘢𝘵𝘦𝘸𝘢𝘺, 𝘓𝘰𝘢𝘥 𝘉𝘢𝘭𝘢𝘯𝘤𝘪𝘯𝘨, 𝘊𝘢𝘤𝘩𝘪𝘯𝘨, 𝘊𝘈𝘗/𝘗𝘈𝘊𝘌𝘓𝘊 𝘵𝘩𝘦𝘰𝘳𝘦𝘮𝘴, 𝘉𝘭𝘰𝘰𝘮 𝘍𝘪𝘭𝘵𝘦𝘳𝘴.  
  
Study the basics of scalability and load balancing, including horizontal and vertical scaling, load balancing algorithms, and caching strategies.  
  
𝐖𝐞𝐞𝐤 2️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘋𝘢𝘵𝘢𝘣𝘢𝘴𝘦𝘴, 𝘋𝘢𝘵𝘢 𝘔𝘰𝘥𝘦𝘭𝘪𝘯𝘨, 𝘗𝘢𝘳𝘵𝘪𝘵𝘪𝘰𝘯𝘪𝘯𝘨, 𝘚𝘩𝘢𝘳𝘥𝘪𝘯𝘨, 𝘙𝘦𝘱𝘭𝘪𝘤𝘢𝘵𝘪𝘰𝘯  
  
Study different types of databases, including SQL and NoSQL, and their use cases. Learn about data indexing, sharding, and replication strategies.  
  
𝐖𝐞𝐞𝐤 3️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘕𝘦𝘵𝘸𝘰𝘳𝘬𝘪𝘯𝘨, 𝘙𝘌𝘚𝘛, 𝘨𝘙𝘗𝘊, 𝘎𝘳𝘢𝘱𝘩𝘘𝘓, 𝘋𝘕𝘚, 𝘗𝘳𝘰𝘹𝘪𝘦𝘴, 𝘞𝘦𝘣𝘴𝘰𝘤𝘬𝘦𝘵𝘴, 𝘓𝘰𝘯𝘨 𝘗𝘰𝘭𝘭.  
  
Study the basics of computer networking and RESTful architecture, including the HTTP protocol, DNS, Proxies, and Websockets.  
  
𝐖𝐞𝐞𝐤 4️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘋𝘪𝘴𝘵𝘳𝘪𝘣𝘶𝘵𝘦𝘥 𝘚𝘺𝘴𝘵𝘦𝘮𝘴, 𝘊𝘰𝘯𝘴𝘪𝘴𝘵𝘦𝘯𝘤𝘺 𝘔𝘰𝘥𝘦𝘭𝘴, 𝘘𝘶𝘰𝘳𝘶𝘮, 𝘓𝘦𝘢𝘥𝘦𝘳/𝘍𝘰𝘭𝘭𝘰𝘸𝘦𝘳, 𝘔𝘦𝘳𝘬𝘭𝘦 𝘛𝘳𝘦𝘦, 𝘊𝘰𝘯𝘴𝘪𝘴𝘵𝘦𝘯𝘵 𝘏𝘢𝘴𝘩𝘪𝘯𝘨.  
  
Study the basics of distributed systems, consistency models, and how to ensure fault tolerance in distributed systems.  
  
𝐖𝐞𝐞𝐤 5️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘈𝘗𝘐𝘴, 𝘈𝘳𝘤𝘩𝘪𝘵𝘦𝘤𝘵𝘶𝘳𝘢𝘭 𝘋𝘦𝘴𝘪𝘨𝘯 𝘗𝘢𝘵𝘵𝘦𝘳𝘯𝘴, 𝘢𝘯𝘥 𝘔𝘪𝘤𝘳𝘰𝘴𝘦𝘳𝘷𝘪𝘤𝘦𝘴.  
  
Study common design patterns like Publisher-Subscriber, Sharding pattern, Circuit Breaker, and Static Content Hosting. Understand the pros and cons of microservices.  
  
𝐖𝐞𝐞𝐤 6️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘚𝘺𝘴𝘵𝘦𝘮 𝘋𝘦𝘴𝘪𝘨𝘯 𝘗𝘳𝘢𝘤𝘵𝘪𝘤𝘦 𝘢𝘯𝘥 𝘐𝘯𝘵𝘦𝘳𝘷𝘪𝘦𝘸 𝘗𝘳𝘦𝘱𝘢𝘳𝘢𝘵𝘪𝘰𝘯.  
  
Practice solving system design problems, both individually and in groups. Prepare for system design interview questions and scenarios.  
  
Prepare for designing social media, Facebook Newsfeed, Instagram, Twitter Search, YouTube, Quora, and Stack Overflow.  
  
𝐖𝐞𝐞𝐤 7️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘔𝘰𝘳𝘦 𝘚𝘺𝘴𝘵𝘦𝘮 𝘋𝘦𝘴𝘪𝘨𝘯 𝘗𝘳𝘢𝘤𝘵𝘪𝘤𝘦 𝘢𝘯𝘥 𝘐𝘯𝘵𝘦𝘳𝘷𝘪𝘦𝘸 𝘗𝘳𝘦𝘱𝘢𝘳𝘢𝘵𝘪𝘰𝘯  
  
Practice solving system design problems: Designing Dropbox, Typeahead Suggestion, API Rate limiting. Messenger.  
  
𝐖𝐞𝐞𝐤 8️⃣ - 𝗧𝗼𝗽𝗶𝗰𝘀: 𝘔𝘰𝘳𝘦 𝘚𝘺𝘴𝘵𝘦𝘮 𝘋𝘦𝘴𝘪𝘨𝘯 𝘗𝘳𝘢𝘤𝘵𝘪𝘤𝘦 𝘢𝘯𝘥 𝘐𝘯𝘵𝘦𝘳𝘷𝘪𝘦𝘸 𝘗𝘳𝘦𝘱𝘢𝘳𝘢𝘵𝘪𝘰𝘯  
  
Practice solving system design problems: Designing Web crawler, Yelp or proximity server, Uber, Ticketmaster.  
  
To prepare for system design, I highly recommend 'Grokking' courses: <https://lnkd.in/dyCRtiec> and <https://lnkd.in/g4Wii9r7>  
  
System Design Interview Survival Guide (2023):  
<https://lnkd.in/deqz6gnz>  
  
Join [Sefism](https://www.linkedin.com/company/sefism/), a slack community helping professionals excel in their careers!  
Register Here: <https://lnkd.in/dPwY_iig>  
  
Follow [Tauseef Fayyaz](https://www.linkedin.com/in/ACoAACogvGkBsaFqvSPBkBwBwBpj-QjPY9YEKss) for more helpful content!  
  
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