



# **BLOCKCHAINS**

## **ARCHITECTURE, DESIGN AND USE CASES**

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COMPUTER SCIENCE AND ENGINEERING,  
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**We are done ...**



# What We have Covered

- The Bitcoin blockchain
- The Blockchain data structure
- The consensus
- Blockchain Security
- Permissioned model - Blockchain 2.0
- Hyperledger Fabric - Use case
- Applications - Government, Finance, Supply Chain, Data Science
- Research Aspects - Scalability, Security, Privacy, ...



# What We Have Not Covered

- There are numerous Blockchain platforms
  - Ethereum
  - Quorum
  - Stellar
  - Multichain
  - Openchain
- How to write programs in individuals - Explore it yourselves, the fundamental concept is the same



# Some Stellar Blockchain Applications ...



# Guardtime - Create “keyless” signatures



# Remme - A Decentralized Authentication System

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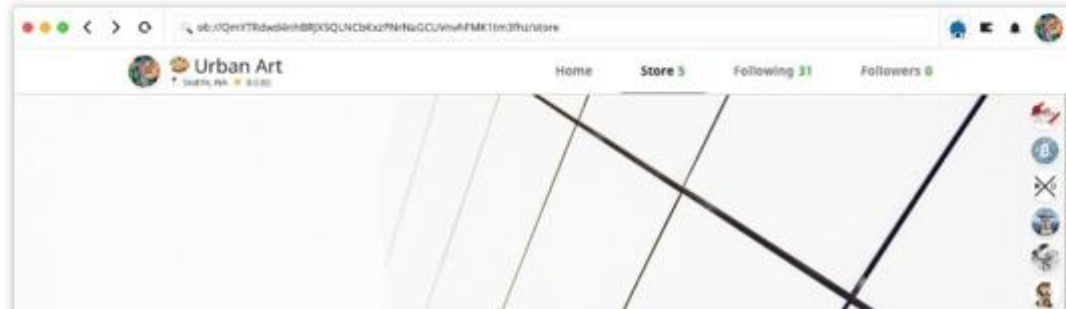
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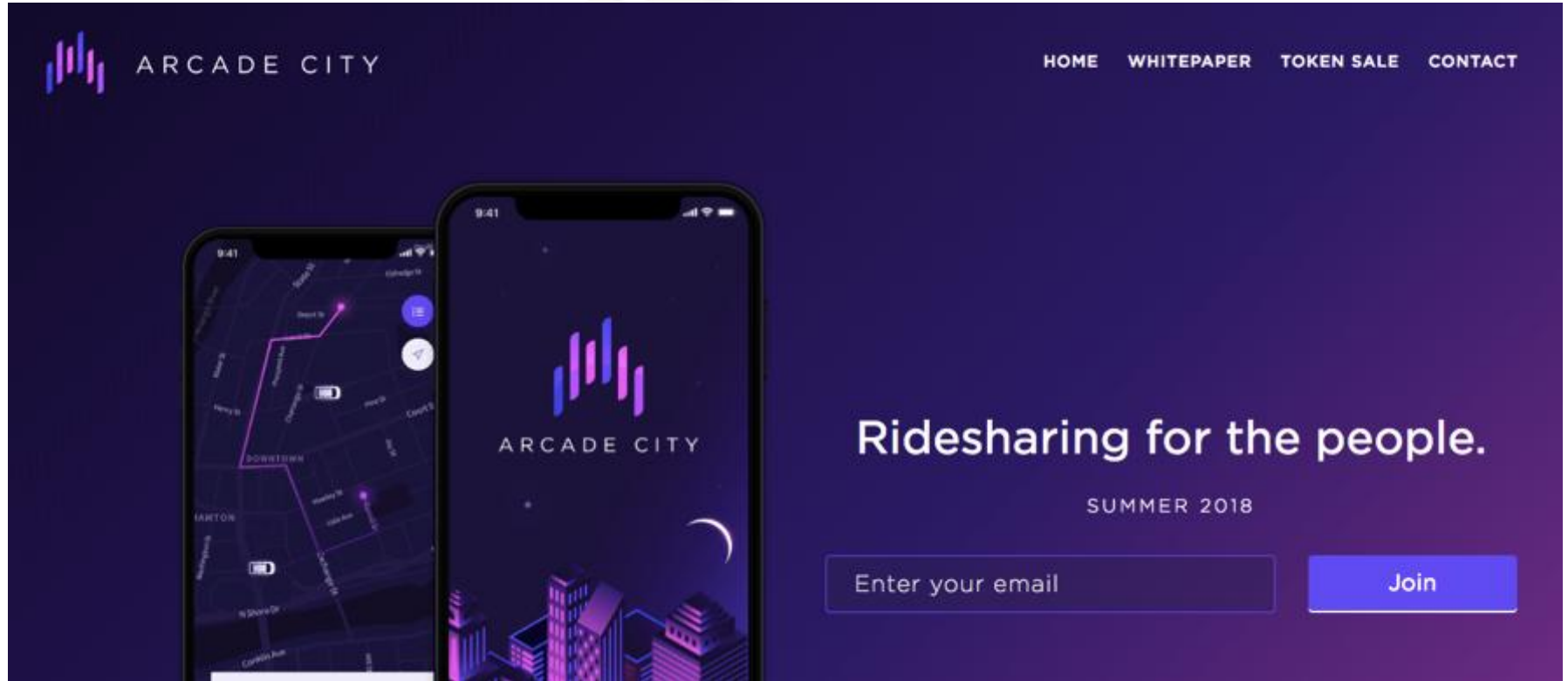
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# Arcade City - Ride Hiring on Blockchain





# La`Zooz - Ride Sharing utilizing unused space on a vehicle



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SUSTAINABILITY**

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# Ready to build your own Blockchain application?





A decorative background featuring a large, stylized wheel with a flower-like center. The wheel has a series of colored segments (yellow, orange, red, pink) around its perimeter. The text "thank you!" is written in a blue, cursive font across the center of the wheel.

thank you!

