

Lecture topics on the second IST 195 midterm exam:

- RFID Technology
- Passive vs. Active Tags
- Apple Air Tags
- RFID vs. Barcode
- NFC
- BLE/Beacons
- Internet of Things Components
- 4 significant IoT Segments (Wearables, Smart Home, Smart City, Smart Industry)
- Pittsburgh Surtrac
- Information Value Loop
- Cloud Computing
- IaaS, and SaaS
- Virtualization
- Benefits of Cloud Computing
- Enterprise Cloud Providers
- Amazon EC2 & S3
- Data Breach
- 3 Types of Data
- PII
- Steganography
- Cryptography
- Symmetric cryptography
- Asymmetric cryptography
- Caesar Shift
- Caesar Number Key
- Caesar Word as Key
- Types of Attackers
- Cookies (3rd Party)
- Information Brokers
- Privacy Laws (Gramm-Leach-Bliley Act, HIPAA, FERPA, PCI-DSS)
- ADPPA
- CPRA
- GDPR
- Ransomware
- Phishing
- ARPANET
- Application / Transport / Network Layer
- Packets (source IP, destination IP, sequence #, acknowledgment, data)
- HTTP
- IPV4 vs. IPV6
- 6 original U.S. Top-Level Domain Names
- Domain Name Expansion
- ICANN
- WIPO
- Domain Name Disputes
- Blockchain
- Decentralized Ledger
- Advantages of Blockchain
- Hash Function
- Smart Contracts
- Food Safety
- NFT's
- eBusiness vs. eCommerce
- .Com Bubble

- Six Funding Options
- Due Diligence
- Growth Stages of a company