



Columbia (SC) Alumnae Chapter

Delta Sigma Theta Sorority, Inc.

Technology

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STAYING SECURE IN THE MODERN AGE

Agenda

- Background
- InfoSec vs Cyber
- Staying Safe
 - Text Messages
 - Email
 - Computer Pop Ups
 - Social Media
- Mobile App Security
- Age of Data
- Passwords
- Your Personal Computing Devices
- Emailing Tips
- Real Life Hacks
- Helpful Sites

Background

- Almost a decade experience in Information Technology (IT) and Information Security
- Held executive positions as an organizations most senior cybersecurity employee (Chief Information Security Officer).
- Currently overseas all Information Technology for a State agency as their Chief Information Officer.
- Currently in the SC National Guard's Cyber Protection Battalion
- BS in Cyber Security and Information Assurance
- 17 Information Technology and Cybersecurity certifications



Information Security

Primary concern is
protecting the
confidentiality, integrity,
and availability of the
data

Cybersecurity

Primary concern is
protecting against
unauthorized electronic
access to the data

Staying Safe: Text Messages

- Receiving random text messages from unknown numbers (or saved contacts!)
- Spoofing Numbers
- Spam calls – 5.6 billion spam calls were received by Americans During February 2021! ([prnewswire.com](https://www.prnewswire.com))

1,477,179,609

Robocalls per week

1,255,602,667

Robocalls during weekdays

221,576,941

Robocalls during weekends

211,025,658

Total Robocalls per day

146,546

Total Robocalls per minute

2,442

Total Robocalls per second

Top 10 Area Codes Flooded by Robocalls

These are cities scammers, robocallers, and telemarketers targeted the most in September.

	Area Code	City	Spam Calls
1	209	California	55,449,436
2	740	Ohio	55,425,204
3	936	Texas	53,698,071
4	520	Arizona	51,831,160
5	864	South Carolina	50,212,704
6	843	South Carolina	48,870,052
7	937	Ohio	47,516,236
8	928	Arizona	47,277,345
9	760	California	46,948,328
10	830	Texas	46,504,756

Staying Safe: Email

Bottom line – “not expecting it, delete it”.

Only open attachments and links from addresses you know

Real phishing email example

Emails on Phones = Most Dangerous

Staying Safe: Computer Pop Ups



Microsoft Security Essentials

WINDOWS VIRUS WARNING!

Identity Theft and Hacking Possibilities.
Contact emergency virus support now.

0-800-051-3723

The system have found (4) viruses that

Threat	Alert
Trojan.FakeAV-Download	
Spyware.BANKER.ID	
Trojan.FakeAV-Download	
Trojan.FakeAV-Download	

Message from webpage

Microsoft Detected Security Error, Due to Suspicious Activity Found On Your Computer. Contact Microsoft Certified Live Technicians 0-800-051-3723 (Toll Free)

OK

⚠ Your personal and financial information is compromised call **0-800-051-3723** to be secured.

Recommended: **Microsoft**





Staying Safe: Social Media

- Posting sensitive information
- Pictures
- *Real World Picture Example
- Data on Social Media





Mobile App Security

"Prime Video" would
find and connect to devices
on your local network.

This app will be able to discover and
connect to devices on the networks
you use.

Don't Allow

OK

Allow While Using App

Allow Once

Don't Allow



Age of Data

- “Whoever has the most data wins”
- Surveys
- Online Games
- Giving away “free” stuff (information)
- Why so valuable? Data drive market

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	1 sec	5 secs
7	Instantly	Instantly	25 secs	1 min	6 mins
8	Instantly	5 secs	22 mins	1 hour	8 hours
9	Instantly	2 mins	19 hours	3 days	3 weeks
10	Instantly	58 mins	1 month	7 months	5 years
11	2 secs	1 day	5 years	41 years	400 years
12	25 secs	3 weeks	300 years	2k years	34k years
13	4 mins	1 year	16k years	100k years	2m years
14	41 mins	51 years	800k years	9m years	200m years
15	6 hours	1k years	43m years	600m years	15 bn years
16	2 days	34k years	2bn years	37bn years	1tn years
17	4 weeks	800k years	100bn years	2tn years	93tn years
18	9 months	23m years	6tn years	100 tn years	7qd years

**TIME IT TAKES
A HACKER TO
BRUTE FORCE
YOUR
PASSWORD**

Passwords

Passwords Pt 2

Passwords vs Passphrase

Password

- P@ssW0rd1!

Passphrase

- Fru1tmomDad&ME

Passphrase 2.0

- #Jabd@CU, SC7594

(#J ust another beautify day @ Clemson
University, SC 7594

Your Personal Computer

1

Keep all software
up to date
(Windows and
Applications)

2

Use anti-virus

3

Stay away from
pirated material

4

Don't use USB
devices unless
you own them



Real Life Hacks

Helpful Sites

Have I been Powned?

- <https://haveibeenpwned.com/>

Credit Karma

- <https://www.creditkarma.com/>

BitDefender (Free Anti-Virus)

- <https://www.bitdefender.com/solutions/free.html>