Developer Student Clubs
Vellore Institute of Technology, Bhopal

# Introduction to Cybersecurity

Saket Upadhyay,
Web and Security Team, DSC-VIT Bhopal

# $whoami

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(साकेत उपाध्याय)

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- Member of ”Web Dev. and Security” team, Google Developer Student Clubs (DSC), VITB
- FrigidSec Lead (University’s CTF Team)
- Interest Domains :-
  - Malware Analysis
  - Android Security
  - Adaptive Cyber Defense Research.

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FRIGIDSEC

1. WHAT
   - What is cybersecurity?
   - What are available paths?

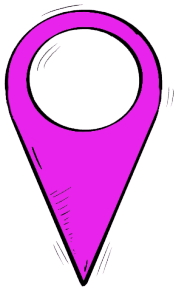
2. WHERE
   - Where are the resources?
   - Where to find inspiration?
   - Where to go for guidance?

3. WHEN
   - When to start?

4. HOW
   - How to prepare ourselves?
   - How to learn intimidating topics effectively?
   - How to find Internships?
     - What to avoid?
     - What to grab?
     - No Internship! now what?

5. Summary

# Who this is for?



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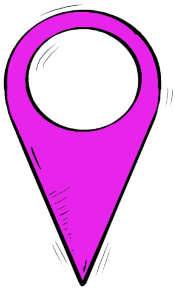

- School students interested in cybersec.

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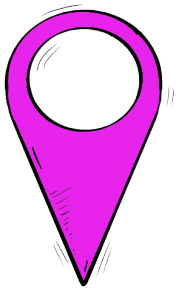

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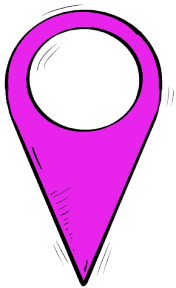

- School students interested in cybersec.
- College undergrad starting in cybersec.
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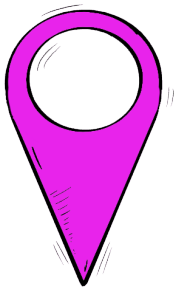

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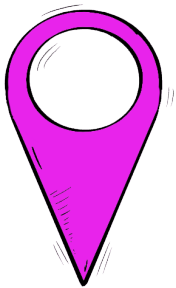

- School students interested in cybersec.
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- Or if you are just interested in the field.

# Our Goal

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- Understand potential of cybersecurity.

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- Understand potential of cybersecurity.
- See beyond cinematic representations and clichés.

# Our Goal


- Understand potential of cybersecurity.
- See beyond cinematic representations and clichés.
- Approach Cybersecurity with confidence.

# Disclaimer

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All the information shared in this presentation is for educational purpose.

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1. WHAT
   What is cybersecurity?
   What are available paths?

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5. Summary

# Cybersecurity...

and the idea behind it.

# Let’s define “Cyber”

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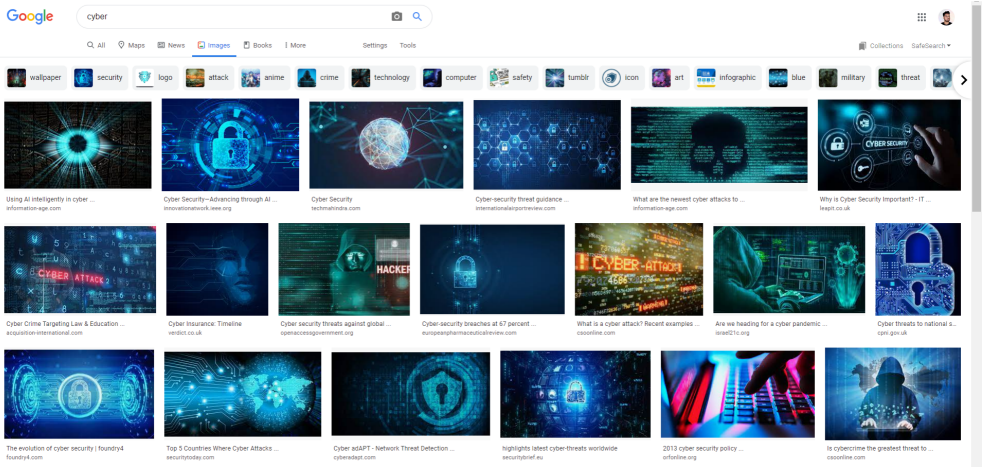

# Cyber?

# Cyber?

* Cybernetics derived from the Greek kubernetes which refers to a pilot or steersman.

# Cyber?

- Cybernetics derived from the Greek kubernetes which refers to a pilot or steersman.
- Related is the Greek word kubernesis which means "the gift of governance" and applies to leadership

# Cyber?

* Cybernetics derived from the Greek kubernetes which refers to a pilot or steersman.

* Related is the Greek word kubernesis which means "the gift of governance" and applies to leadership
* Relating to or characteristic of the culture of computers, information technology, and virtual reality.

CYBER =

CYBER = ANYTHING DIGITAL

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Cyber term = CYBER- X

Anything

CYBER = ANYTHING DIGITAL

Cyber term = CYBER- X
Anything

eg:

| | |
|---|---|
| Cyberage | Cyberattacks |
| Cyberbullying | Cyberbully |
| Cybercrime | Cybercafe |
| Cyberpunk | Cybercitizen |
| Cybernetics | Cybercriminal |

CYBER = ANYTHING DIGITAL

Cyber term = CYBER- X (Anything)

eg:

| | | | |
|---|---|---|---|
| Cyberage | Cyberattacks | Cybernated | Cyberculture |
| Cyberbullying | Cyberbully | Cybernation | Cybernetics |
| Cybercrime | Cybercafe | Cybernaut | Cyberpunk |
| Cyberpunk | Cybercitizen | Cybernetic | Cybersafety |
| Cybernetics | Cybercriminal | Cybernetical | Cybersecurity |

# What are the domains?

We will try to -

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1. Gain a non-static reference

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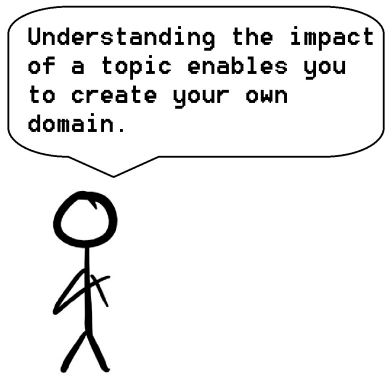
2. Recognize potential cybersec. domain

# What are the domains?

We will try to -

1. Gain a non-static reference
2. Recognize potential cybersec. domain
3. Understand impact of **security** on **cyber domains**



# Domains of Cyber


Domains of Cyber
Computer


Domains of Cyber
Computer
Data


Domains of Cyber
Computer
Data
Cloud


Domains of Cyber
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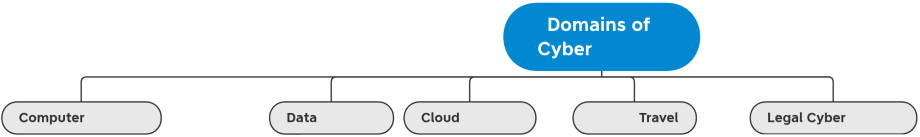
Data
Cloud
Travel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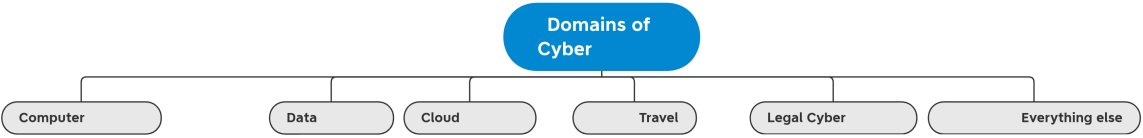
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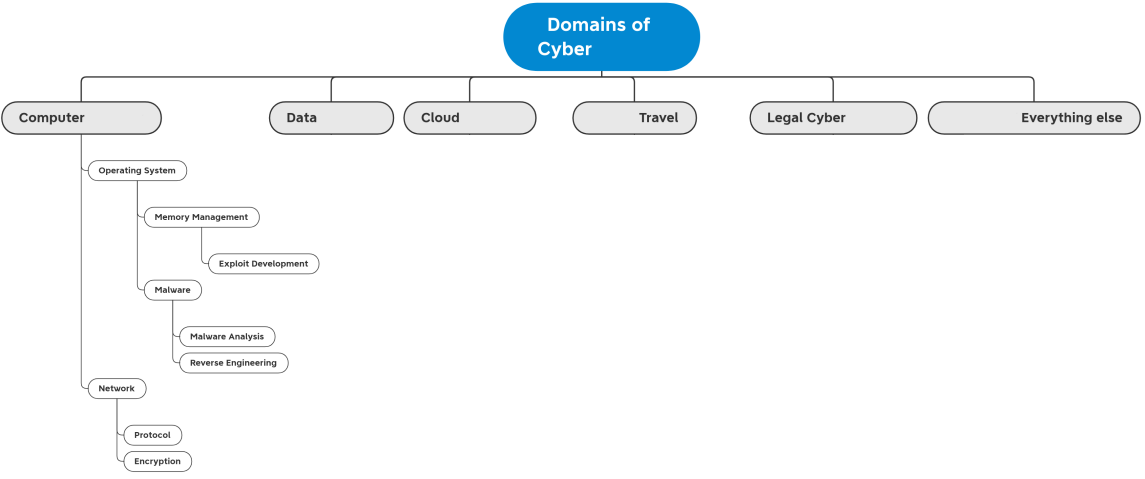
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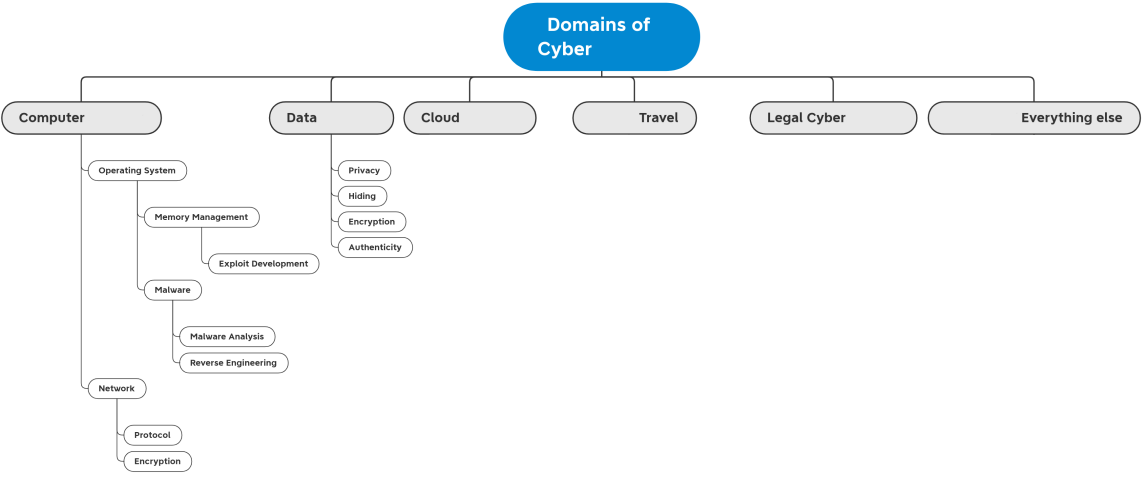
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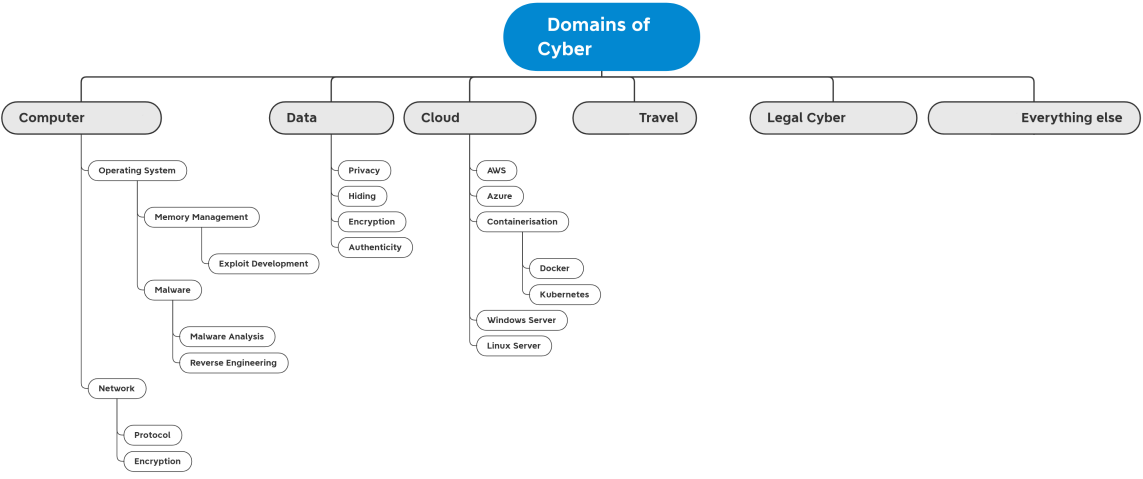
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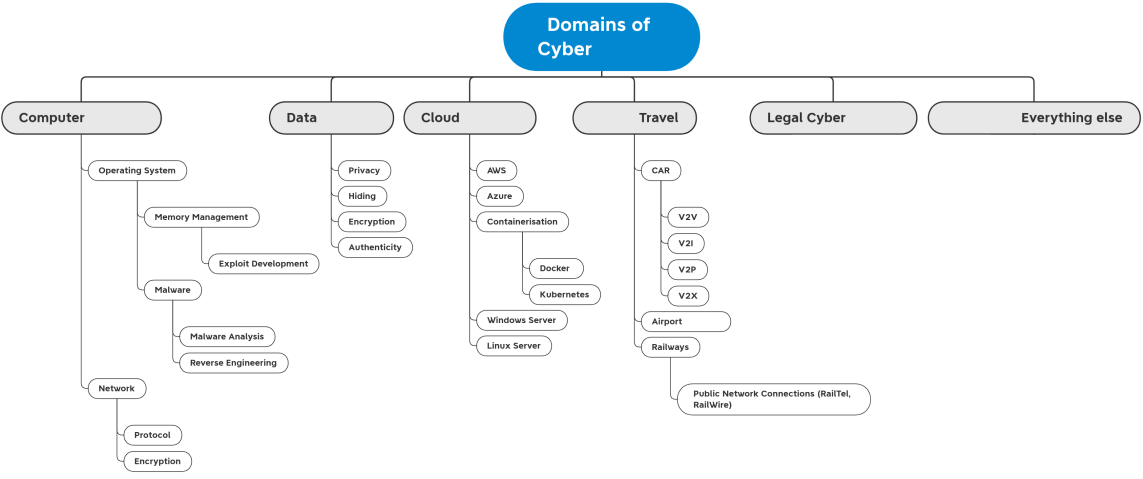
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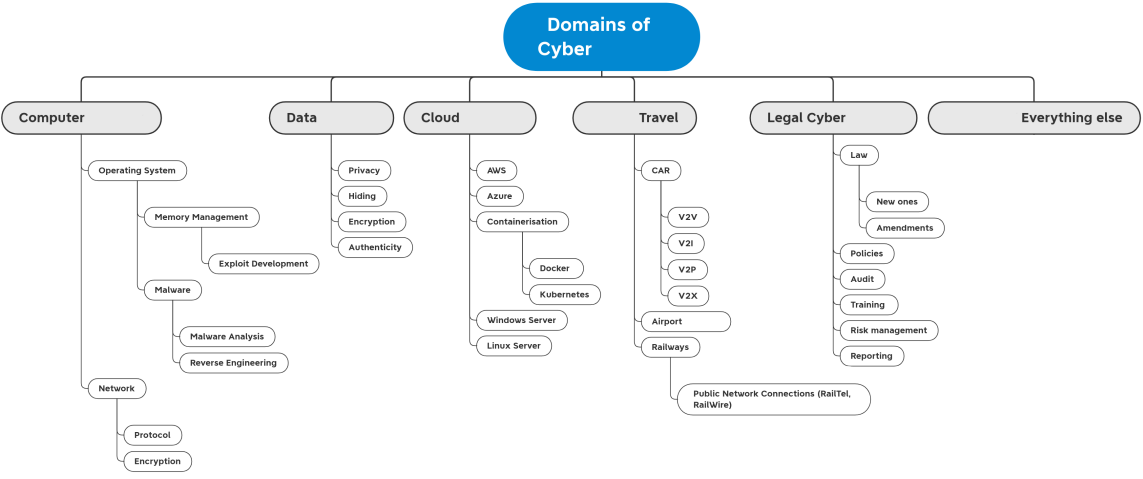
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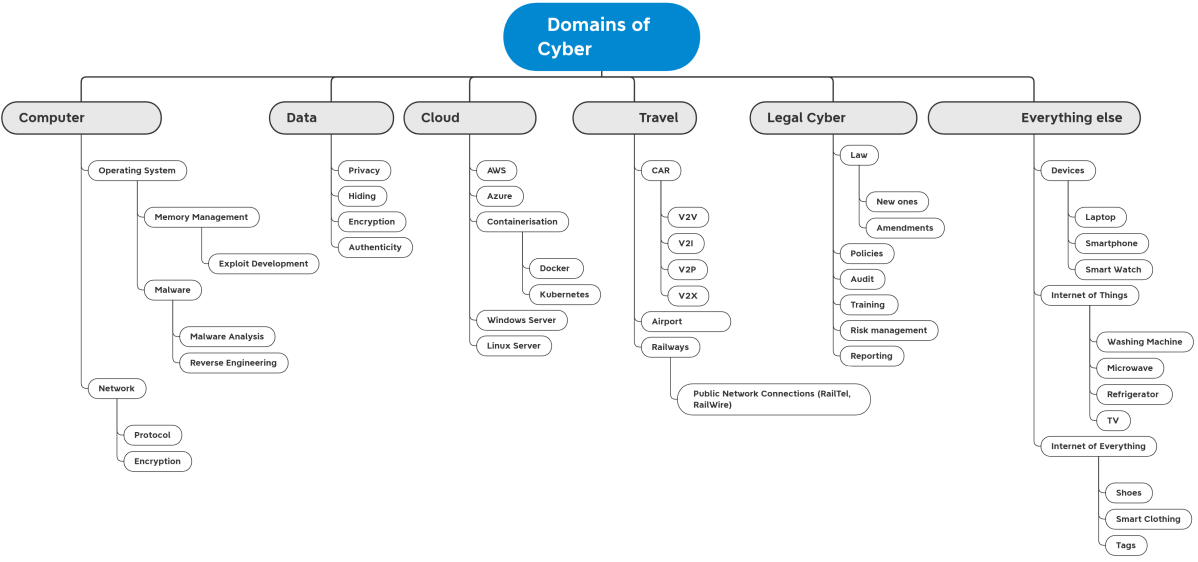
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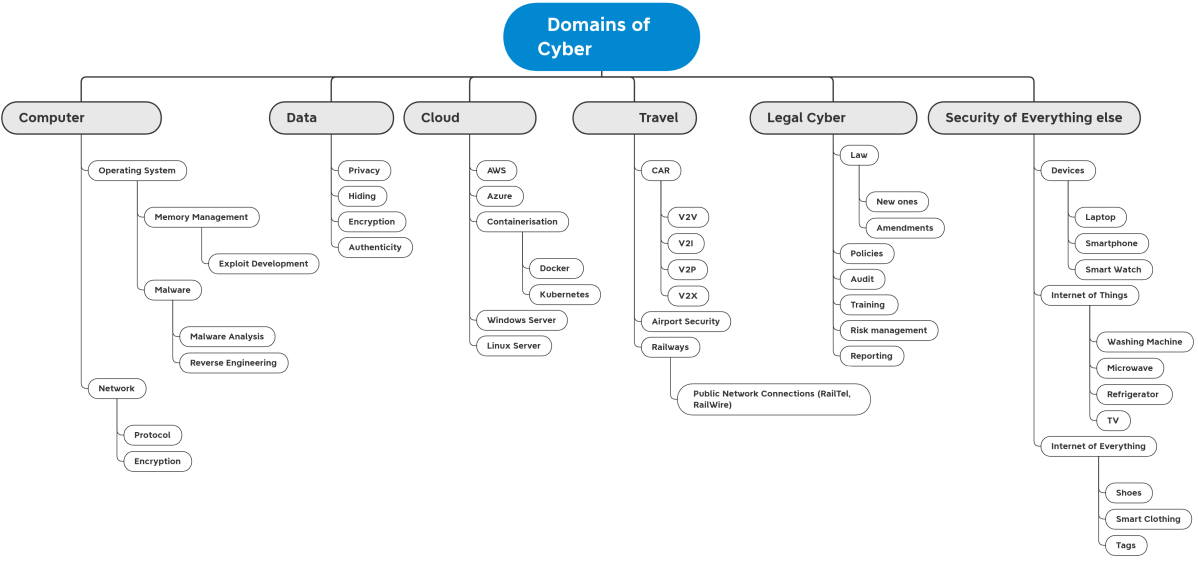
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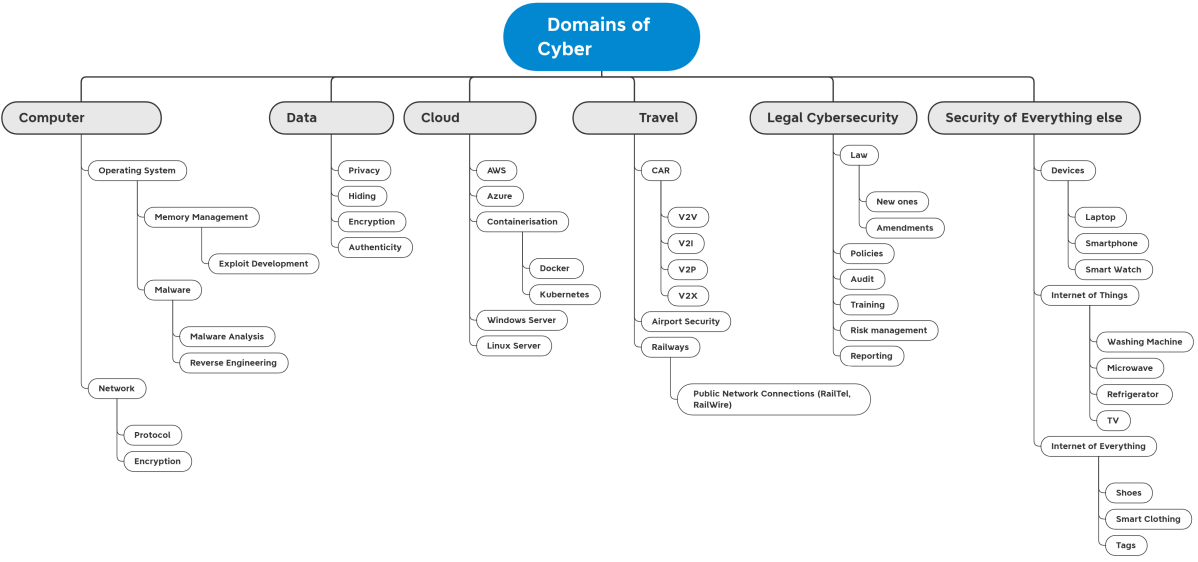
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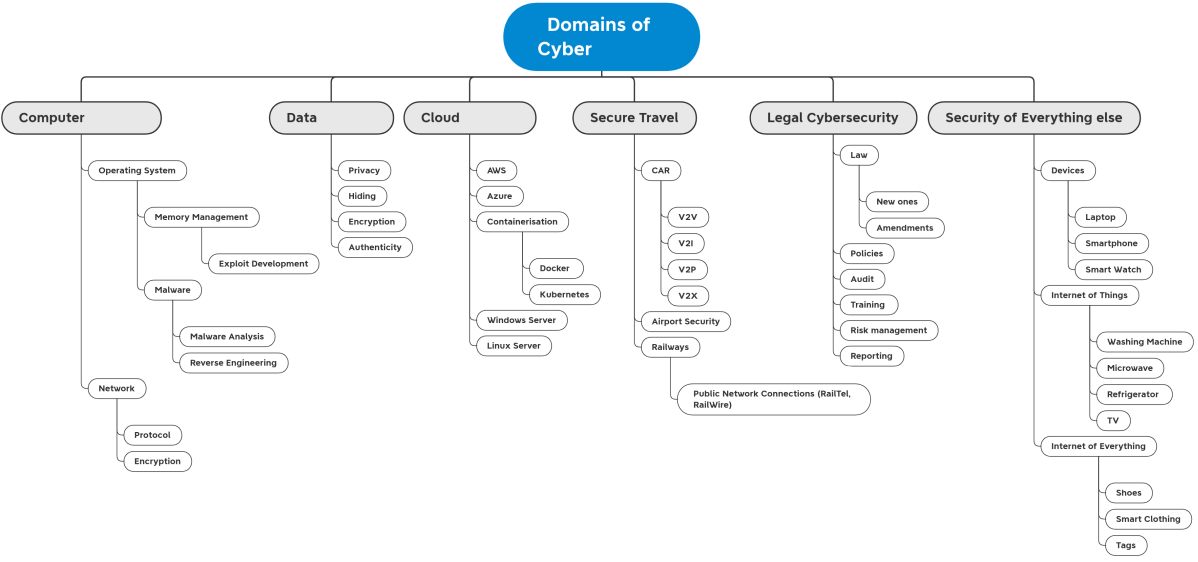
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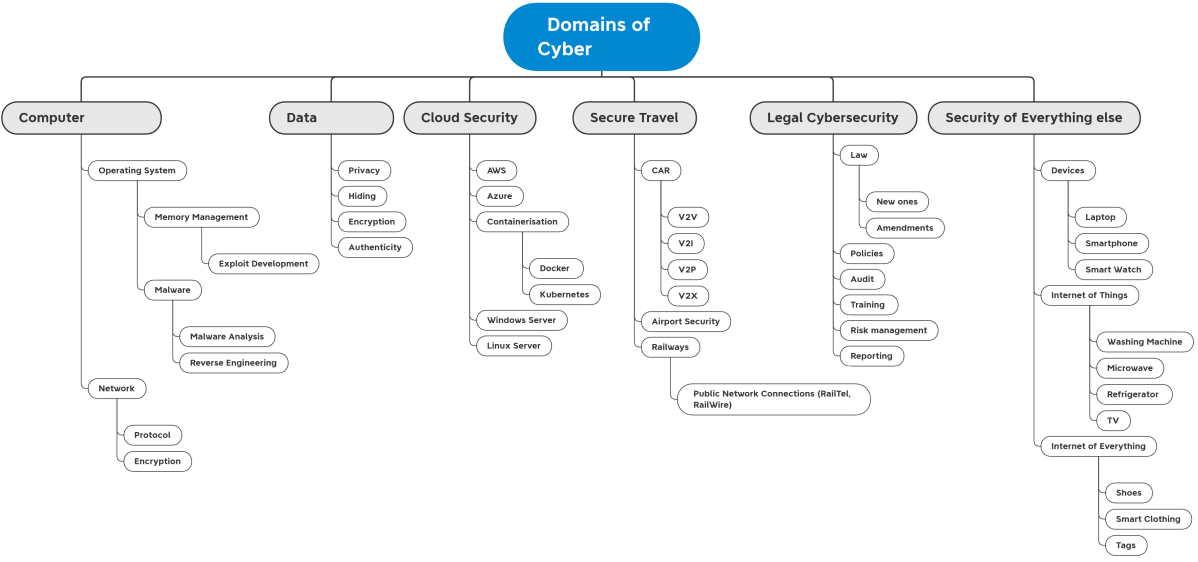
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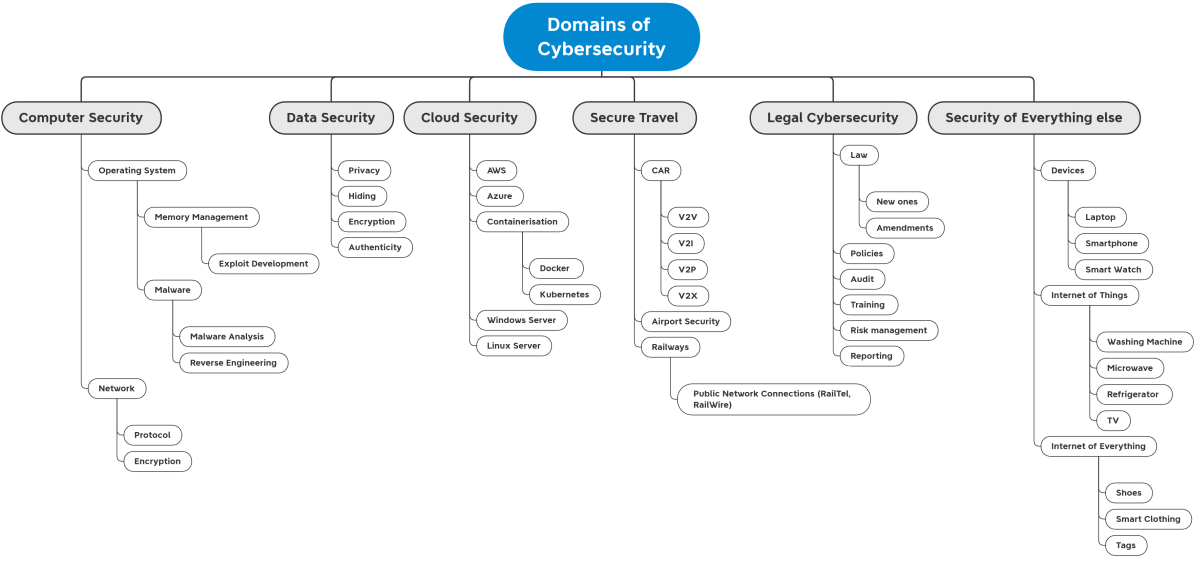
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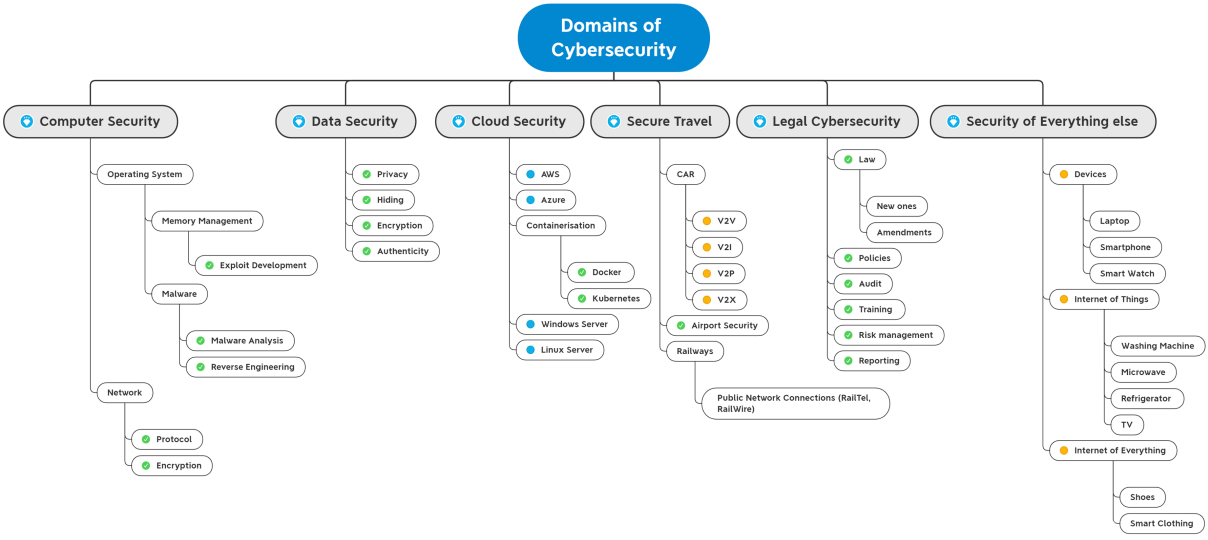
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# What are available paths?

Thinking out of movies and clichés.

Usual pop culture roles and some cliché ones.

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- CISO
- Pentester
- Bug Hunter
- Underground hacker in black hoodie

# What are available paths?

Thinking out of movies and clichés.

1. Application Security Administrator
2. Artificial Intelligence Security Specialist
3. Automotive Security Engineer
4. Blockchain Developer / Engineer
5. Blue Team Member
6. Bug Bounty Hunter
7. Cybersecurity Scrum Master
8. Chief Information Security Officer (CISO)
9. Cryptanalyst
10. Counterespionage analyst

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9. Cryptanalyst
10. Counterespionage analyst
11. Chief Security Officer (CSO)
12. Cloud Security Architect
13. Cybersecurity Lawyer
14. Cybersecurity Software Developer
15. Cryptographer
16. Cyber Insurance Policy Specialist
17. Cyber Intelligence Specialist
18. Cyber Operations Specialist
19. Cybersecurity Hardware Engineer
20. Cybercrime Investigator

# What are available paths?

Thinking out of movies and clichés.

21. Digital Forensics Analyst
22. Data Security Analyst
23. Data Privacy Officer
24. Data Recovery Specialist
25. Disaster Recovery Specialist
26. Governance Compliance & Risk (GRC) Manager
27. Malware Analyst
28. IT Security Architect
29. IIoT (Industrial Internet of Things) Security Specialist
30. Incident Responder

# What are available paths?

Thinking out of movies and clichés.

21. Digital Forensics Analyst
22. Data Security Analyst
23. Data Privacy Officer
24. Data Recovery Specialist
25. Disaster Recovery Specialist
26. Governance Compliance & Risk (GRC) Manager
27. Malware Analyst
28. IT Security Architect
29. IIoT (Industrial Internet of Things) Security Specialist
30. Incident Responder
31. Mobile Security Engineer
32. Network Security Administrator
33. Penetration Tester (Pen-Tester)
34. PKI (Public Key Infrastructure) Analyst
35. Red Team Member
36. SCADA Security Analyst
37. Security Operations Center (SOC) Analyst
38. Security Operations Center (SOC) Manager
39. Source Code Auditor
40. Security Awareness Training Specialist

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   Where to find inspiration?
   Where to go for guidance?

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# Where are the resources?

# Where are the resources?

- Online
  - Twitter
  - Reddit
  - Information Security Exchange (child of Stack Exchange, sibling of StackOverflow)
  - Open Forums
  - Personal Blogs of people in the filed (Mostly Academia)

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- Offline

# Where are the resources?

- Online
  - Twitter
  - Reddit
  - Information Security Exchange (child of Stack Exchange, sibling of StackOverflow)
  - Open Forums
  - Personal Blogs of people in the filed (Mostly Academia)
- Offline
  - Books (Text / Reference)
  - Articles
  - Research Papers (Specific Topic)
  - Teachers / Professors
  - College / University Syllabus [most underrated]

# Where to find inspiration?

Building your Feed

# Where to find inspiration?

## Building your Feed

- Make a new Google, Twitter and Reddit account

# Where to find inspiration?

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- Make a new Google, Twitter and Reddit account
- Record your academic activity in Google's suggestion algo.

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  1. Log-in to your Google Account
  2. Continue your Studies / Search online
  3. Log-out when you are done

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- Make a new Google, Twitter and Reddit account
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# Where to find inspiration?

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    1. Log-in to your Google Account
    2. Continue your Studies / Search online
    3. Log-out when you are done
- Only watch academic videos from your Google account,use another account for entertainment.

# Where to go for guidance?

# Where to go for guidance?

1. Professor (Use Topic Decomposition Approach)

# Where to go for guidance?

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2. Forums

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1. Professor (Use Topic Decomposition Approach)
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   - Reddit
   - StackExchange
   - IRC
3. Discussion Panels
   - Open Conferences
   - Security Conferences (YouTube)
   - Conclaves & Panel Discussions

# Where to go for guidance?

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   - Reddit
   - StackExchange
   - IRC
3. Discussion Panels
   - Open Conferences
   - Security Conferences (YouTube)
   - Conclaves & Panel Discussions
4. Open Talks from reputed professionals (eg. TED, TEDx, etc.)

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   When to start?

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# When to start?

# When to start?

# When to start?

# When to start?

# When to start?

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   How to prepare ourselves?
   How to learn intimidating topics effectively?
   How to find Internships?

5. Summary

# How to prepare ourselves?

The thought process of a cybersecurity student.

**Ask right questions.**

# How to prepare ourselves?

The thought process of a cybersecurity student.

**Ask right questions.**

1. How it works?

# How to prepare ourselves?

The thought process of a cybersecurity student.

**Ask right questions.**

1. How it works?
2. Why we need it?

# How to prepare ourselves?

The thought process of a cybersecurity student.

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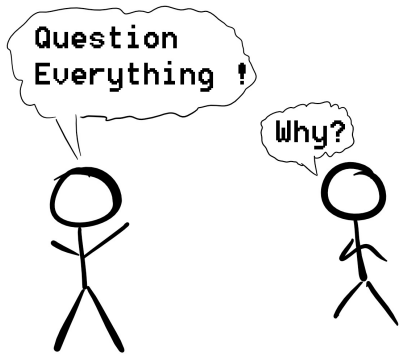
3. What if we remove it?

# How to prepare ourselves?

The thought process of a cybersecurity student.

**Ask right questions.**

1. How it works?
2. Why we need it?
3. What if we remove it?
4. If not this then what?



# What are the basic requirements?

These are needed for any IT Job -

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These are needed for any IT Job -

- Computer Network

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- Computer Network
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- Computer Network
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- Computer Architecture

# What are the basic requirements?

These are needed for any IT Job -

- Computer Network
- Operating System
- Data Structures
- Computer Architecture
- Programming Language (Object Oriented) [C/C++/Python/Java]

# How to learn intimidating topics effectively?

# How to learn intimidating topics effectively?

- Topic Decomposition, Correlation & Planning.

# How to learn intimidating topics effectively?

- ✓ Topic Decomposition, Correlation & Planning.
- ✓ Your Own Weird Names (YOWN)

# Topic Decomposition, Correlation & Planning.

Divide and Rule!

# Topic Decomposition, Correlation & Planning.

Divide and Rule!

1. Identify small sub-topics under a major theme

# Topic Decomposition, Correlation & Planning.

Divide and Rule!

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2. Reduce to smaller sections

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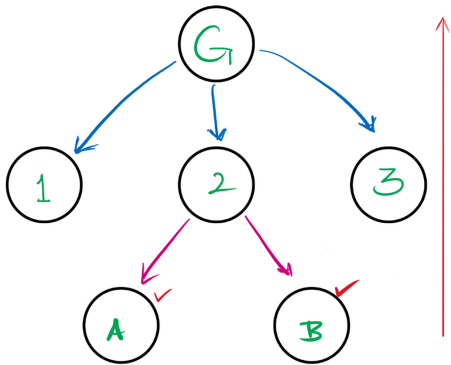
1. Identify small sub-topics under a major theme
2. Reduce to smaller sections
3. Find where you can read all these smaller topics, individually.

# Topic Decomposition, Correlation & Planning.

Divide and Rule!

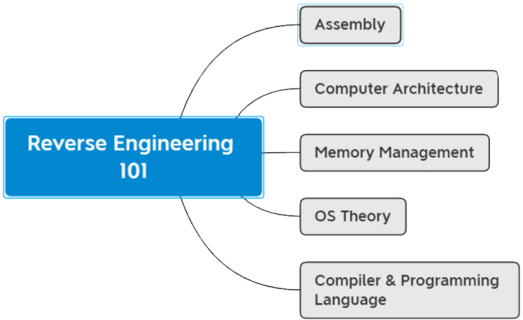
1. Identify small sub-topics under a major theme
2. Reduce to smaller sections
3. Find where you can read all these smaller topics, individually.
4. Finally stitch all together.



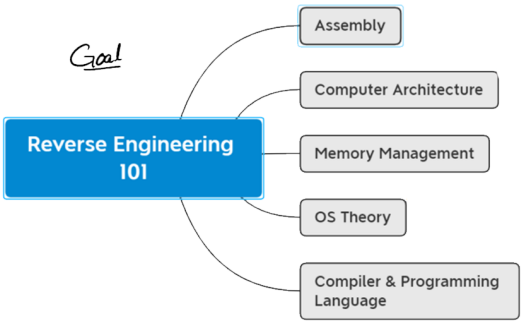
# Topic Decomposition

Reverse Engineering 101

# Topic Decomposition

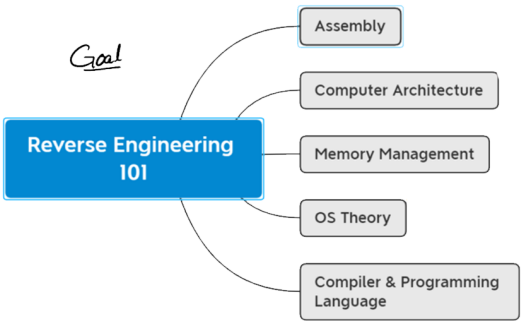


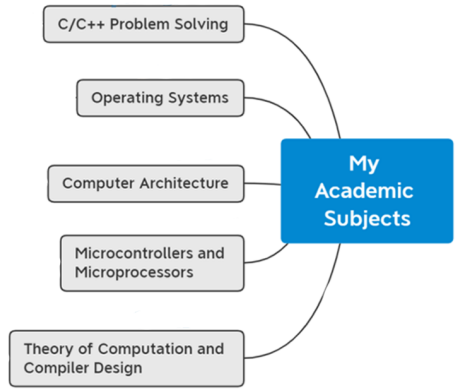
# Topic Decomposition




My Academic Subjects

# Topic Decomposition



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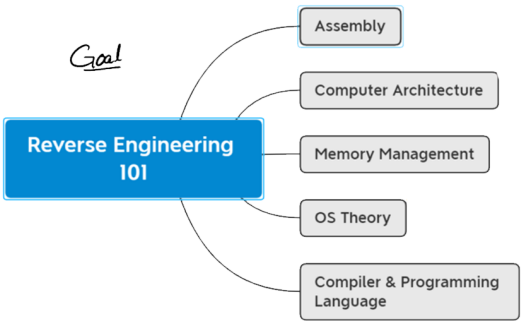


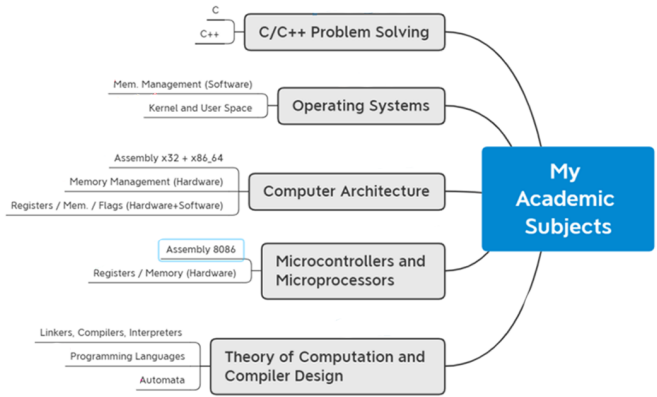

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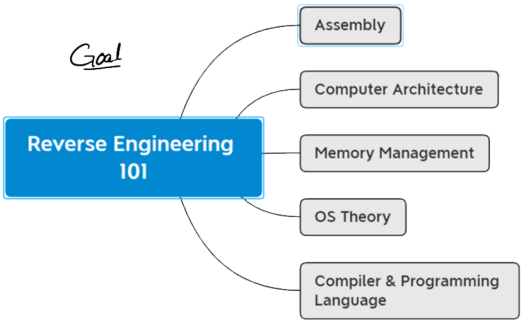


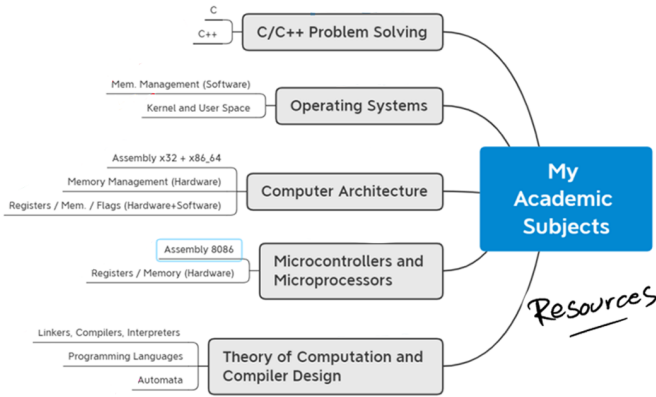

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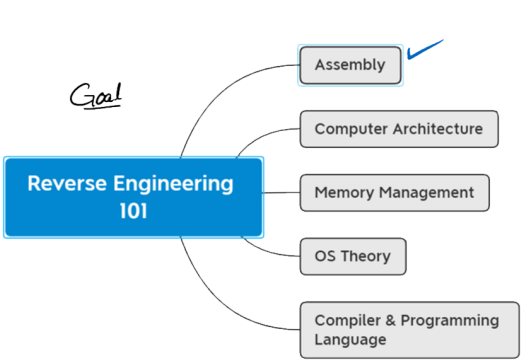


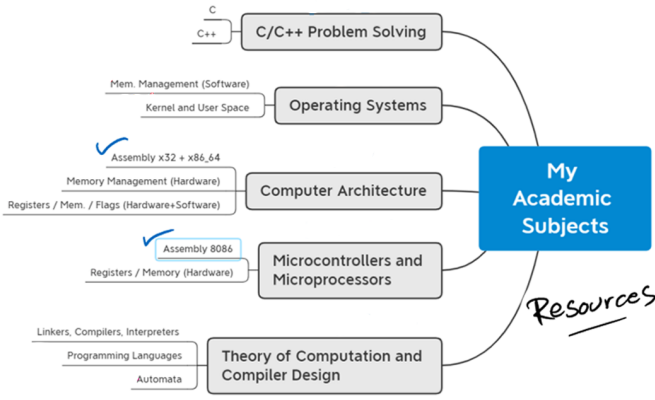

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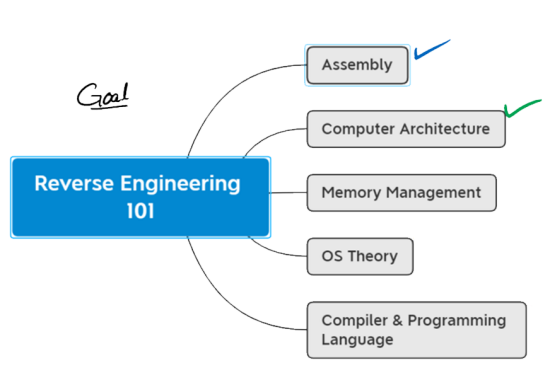
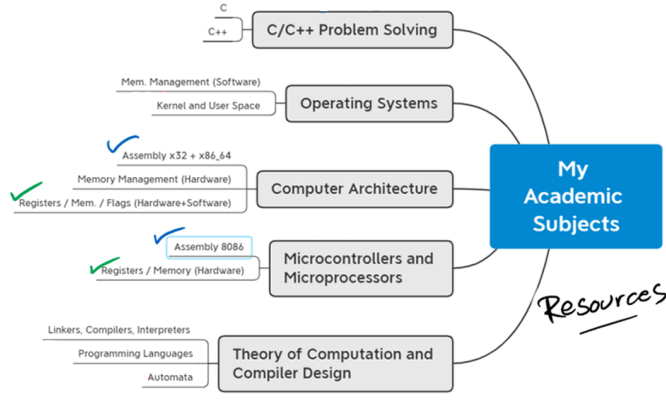
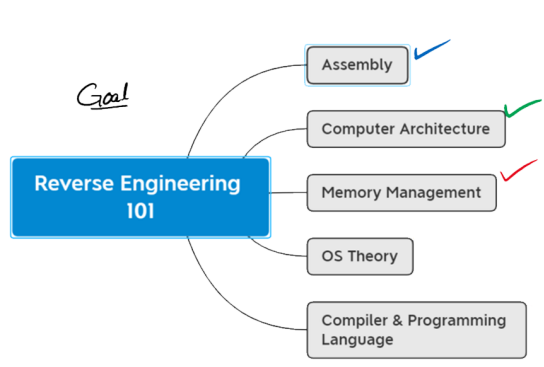
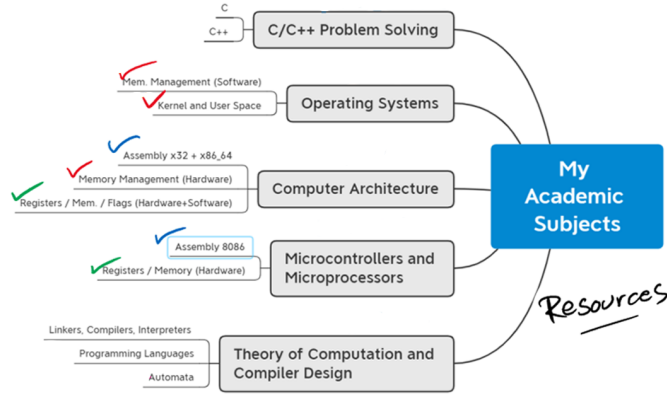


# Topic Correlation



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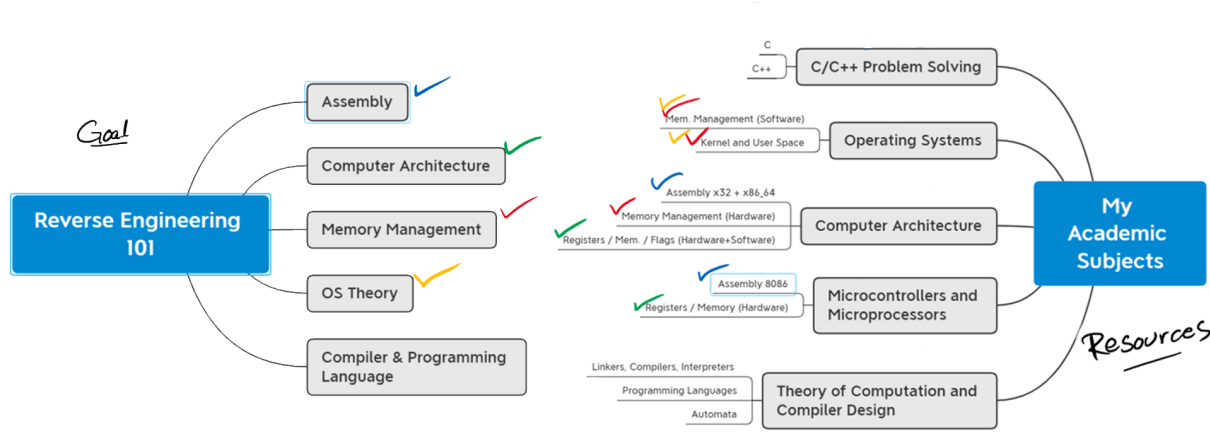

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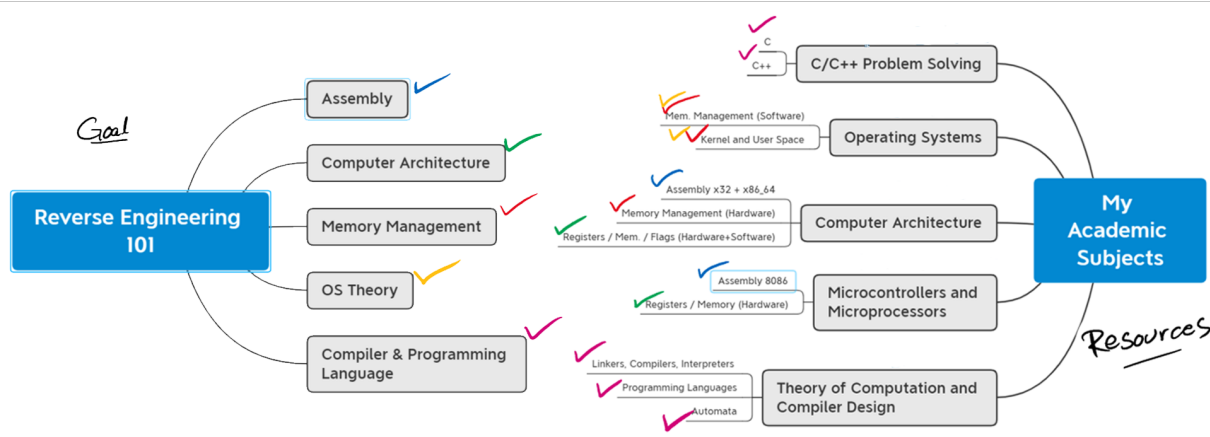
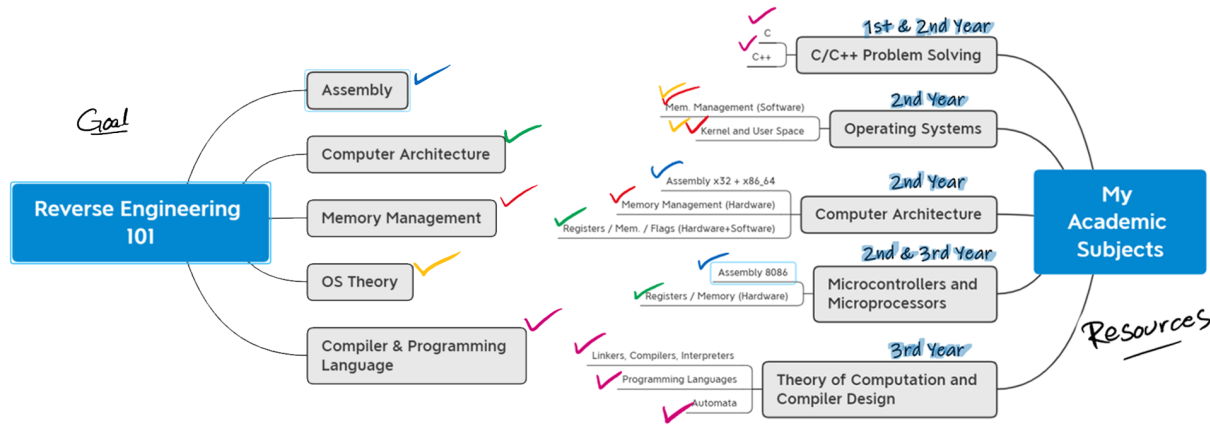


# Topic Planning



# Your Own Weird Name

How to learn intimidating topics effectively?

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How to learn intimidating topics effectively?

Make it so weird that you can’t get it out of your head.

# Your Own Weird Name

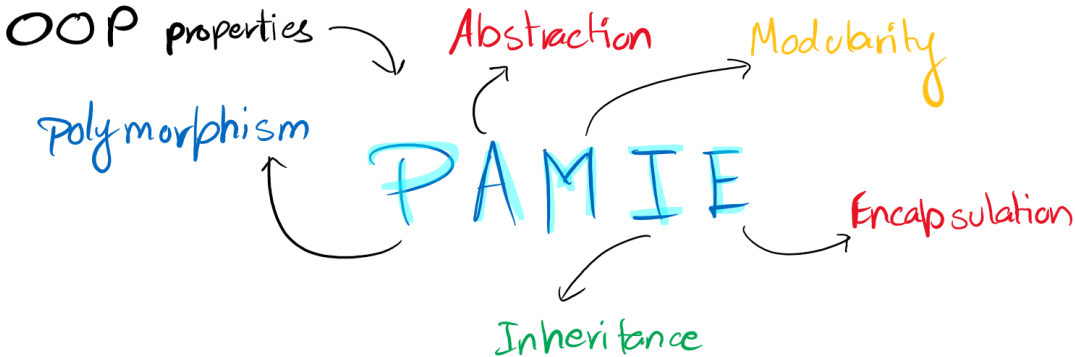
How to learn intimidating topics effectively?

- Make it so weird that you can’t get it out of your head.
- Make so simple that you can’t forget it

# Your Own Weird Name

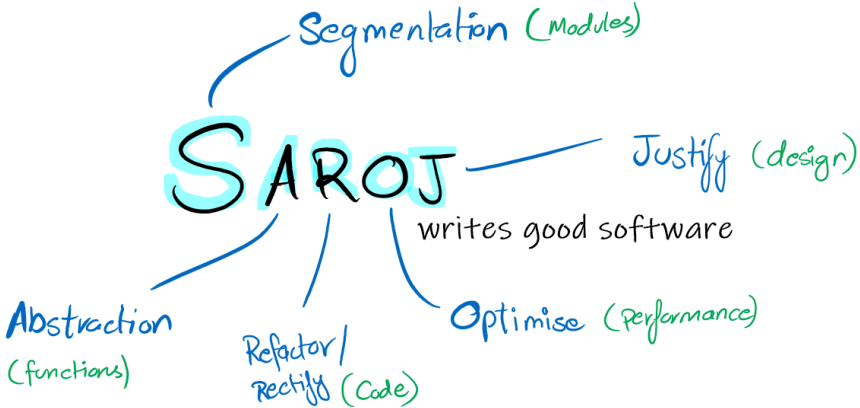
x

(Yown)



# Your Own x Weird Name

(Yown)



# How to find Internships?

What to expect from it?

Keep an eye on -

# How to find Internships?

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Keep an eye on -

- Linked-IN.

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What to expect from it?

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- Linked-IN.
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- Google Jobs.
- Government Note Boards (online).

# How to find Internships?

What to expect from it?

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- Linked-IN.
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- Company's Social Media.

# How to find Internships?

What to expect from it?

Keep an eye on -

- Linked-IN.
- Glassdoor.
- Google Jobs.
- Government Note Boards (online).
- Company's Social Media.
- Among your connections and professional circle.

# What to avoid?

Red Signals

# What to avoid?

## Red Signals

- They demands money from YOU (you don’t pay the person for whom you are working!)

# What to avoid?

## Red Signals

- They demands money from YOU (you don’t pay the person for whom you are working!)
- Affiliate Links

# What to avoid?

## Red Signals

- They demands money from YOU (you don't pay the person for whom you are working!)
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- They say - "Post this for us on your social media, and we will give you certificate"

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- They demands money from YOU (you don't pay the person for whom you are working!)
- Affiliate Links
- They say - "Post this for us on your social media, and we will give you certificate"
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- Too good to be true.

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- Affiliate Links
- They say - "Post this for us on your social media, and we will give you certificate"
- Pyramid Scheme
- Too good to be true.
- No clear plan of intake and job expectation.

# Signs of good internship

Good offer.

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- Gives Experience (it can be unpaid)

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- Verified and Detailed expectations

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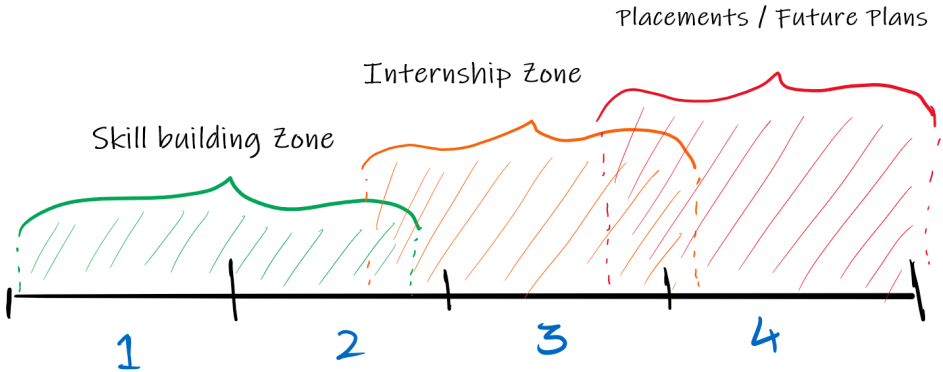
- Your intended job role
- Reputed Entity.
- Verified and Detailed expectations
- Transparent intake policy

# When to do internships?

$1^{st}$ year?, $2^{nd}$ year?, $3^{rd}$ year?...



# No Internship! now what?

Projects!

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Projects!

- Initiate a personal project and complete it will proper documentation and within target time line.

# No Internship! now what?

Projects!

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- What you did when there was no pressure and no incentive.

# No Internship! now what?

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Projects!

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- Try to do a Community Project.

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Projects!

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- Prepare for well-respected certification.

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- Or just learn more and gain skills needed for your target internship.

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- Try to do a Community Project.
- Try to contribute in Open-Sourced project.
- Prepare for well-respected certification.
- Or just learn more and gain skills needed for your target internship.
- **Don’t give up**

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# Summary

## What

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of
**EVERYTHING**
digital.

# Summary

## What

Security
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digital.

## Where

Resources
Guidance
Inspiration
.

# Summary

## What

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## Where

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Inspiration
.

## How

Topic Decomposition
Topic Correlation
Topic Planning
YOWN

# Peace of Mind & Patience

# Peace of Mind & Patience

- Find time for mental health

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- Find time for mental health
- Don’t compare with progress of others

# Peace of Mind & Patience

- Find time for mental health
- Don’t compare with progress of others
- Learn from competition, don’t get demotivated.

# Peace of Mind & Patience

- Find time for mental health
- Don’t compare with progress of others
- Learn from competition, don’t get demotivated.
- It is as hard as any other subject / skill.

# References

Websites, Articles, Posts, etc.


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- https://securityboulevard.com/2020/11/top-10-cyber-security-trends-to-watch-out-for-in-2021/

# Sincere Thanks

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## Prof.

Dr.Shishir K. Shandilya*
Dr.Gaurav Pareek*
Dr.Ajeet Kumar#

Developer Student Clubs

# Sincere Thanks

## Prof.

Dr.Shishir K. Shandilya*
Dr.Gaurav Pareek*
Dr.Ajeet Kumar#

## Friends

For
Data, Tips
and Support

# Sincere Thanks

## Prof.

Dr.Shishir K. Shandilya*
Dr.Gaurav Pareek*
Dr.Ajeet Kumar#

#: Soongsil University, South Korea

*: Vellore Institute of Technology, India

## Friends

For
Data, Tips
and Support

## DSC

Web & Security Team
Event Hosting Team
Everyone in DSC!

Developer Student Clubs


# Thanks; धन्यवाद्; Спасибо;

Web and Security Team, DSC