

Surviving Ethical Hacking

Week 1

Who are we?

@Casual_Unknown

Sarah

Information Security
Consultant
@Waterstons



@akhanhack

Abdullah

Senior Ethical Hacking
Lead @BRIM



Who are we?

@RLeanord

Rory

President
4th Year



@CyberSophi

Sophie

Treasurer
3rd Year



@Alex

Alex

Cool dude
2nd Year





First Year

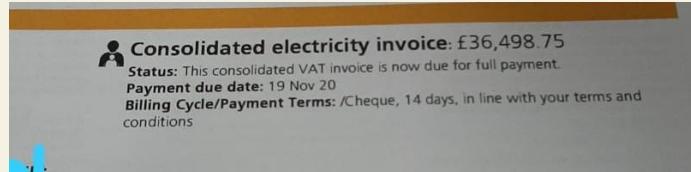
Change of scenery





Staying in halls

- Communicate with your flatmates
- Keep on top of cleaning
- Learn to cook





First semester

- CHAOS- trust me, the name fits
- Programming with C++- either the easiest or hardest module
- Computer networking- how the internet works and more





Second semester

- Software design- programming 2 electric boogaloo
- Intro to security- The bit you joined this course for
- Elective- choose wisely





Prepare to see this guy a lot...



youtube.com/watch?v=dQw4w9WgXcQ



02

Second Year

ROUND 2
FIGHT!!





Semester 1 Overview

- Ethical Hacking 1
- Dynamic Web Development 1
- Data Structures and Algorithms 1



02:09

< might commit arson

CSS will not make me cry

CSS will not make me cry CSS will not make me cry CSS will not make me cry CSS will not make me cry CSS will...

Toastisofi

29h 29m

Enhance

Add songs

...
...
...

Smile • Lily Allen

DESKTOP-S61K865

Home Search Your Library

DATA STRUCTURES AND ALGS

LEVELS OF HELL:

Limbo

Lust

Gluttony

Greed

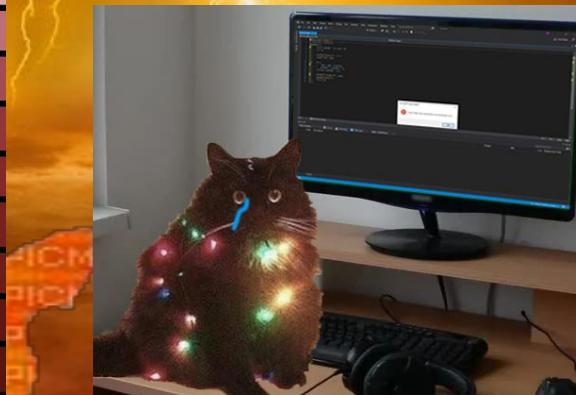
Anger

Heresy

Violence

Fraud

Treachery



crush: hey, come over ;)

me: but there are so many routes to take and I don't know which one to is the fastest :(

crush: my parents aren't home ;)
me:

7	6	5	8	7	6	9	10	11	19	20	21	22
6	5	4	5	6	7	8	9	10	18	19	20	21
5	4	3	4	5	6	7	8	9	17	18	19	
4	3	2	3	4	5	6	7	8	16	17	18	19
3	2	1	2	3	4	5	6	7	15	16	17	18
2	1	1	2	3	4	5	6	7	14	15	16	17
3	2	1	2	3	4	5	6	7	13	14	15	16
4	3	2	3	4	5	6	7	8	12	13	14	15
5	4	3	4	5	6	7	8	9	11	12	13	14
6	5	4	5	6	7	8	9	10	11	12	13	14



Semester 2 Overview

- Digital Forensics 1
- Data Structs and Algs 2

VOICE CHANNELS

🔊 General

🔊 crying



DATA STRUCTURES AND ALGORITHMS 2



LEVELS OF HELL:

Limbo

Lust

Gluttony

Greed

Anger

Heresy

Violence

Fraud

Treachery

Data Structures and Algorithms 1

Data Structures and Algorithms 2



Tips

- Can ask to use different programming language for data algs
- Group work can be painful: don't make it painful for others
- Look at internships? Doesn't matter if you don't get them.. Have fun with it...



- Don't stress, have fun, there are still many new friends to meet xx



Third Year

When shit gets cool





Semester 1

- Web App Hacking
- Networking 2
- Project Planning

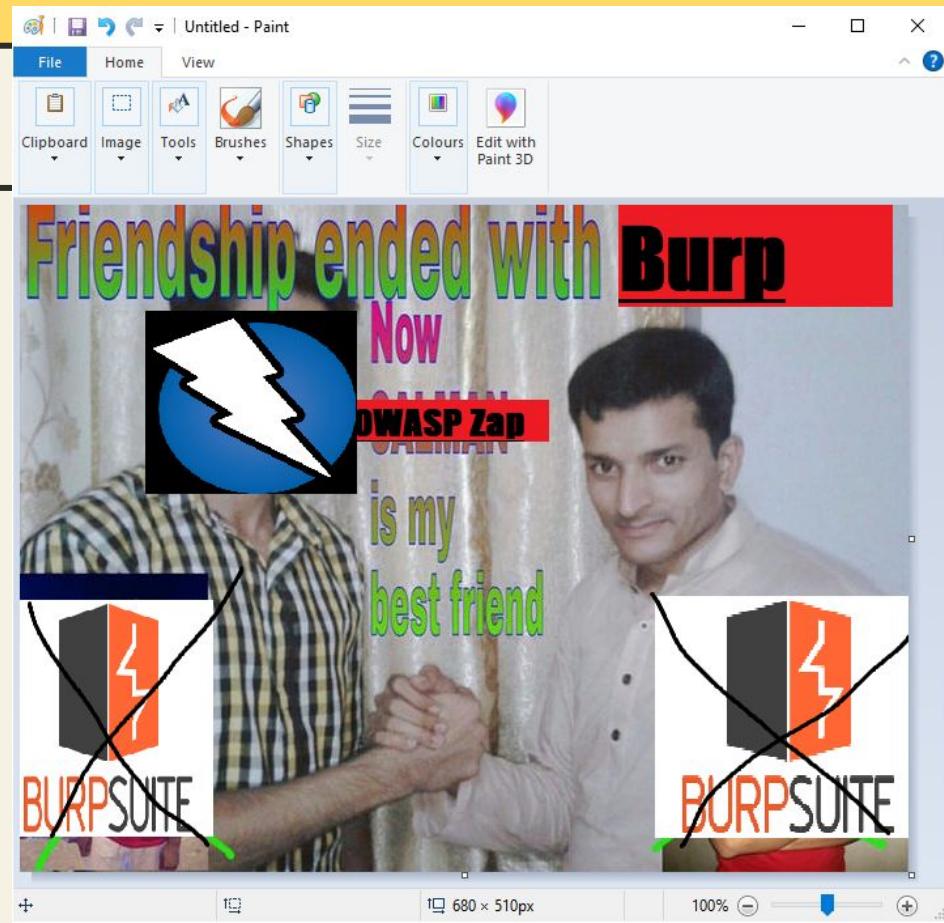
Semester 2

- Exploit Dev/Mini Project
- Android Dev
- Project Development

Web App

OWASP Zap <3

OWASP or Web app Handbook

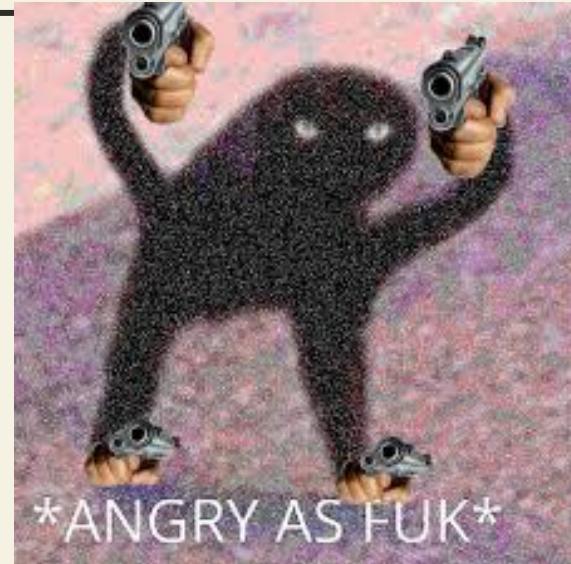




Networking

Good Luck copy and pasting

CMP314 Github





Project Planning/Development

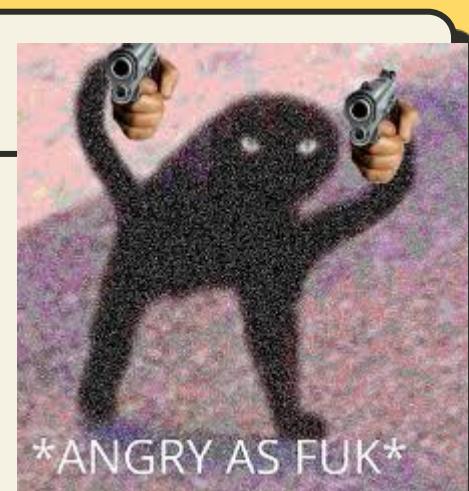
Not Marked on the actual development

Reporting and justifications

Gantt Charts are pain

Android Dev

USE JAVA





Mini Project

Can Be really cool

Pick something you're interested in

Think about it now

Exploit Dev

Buffer Overflow

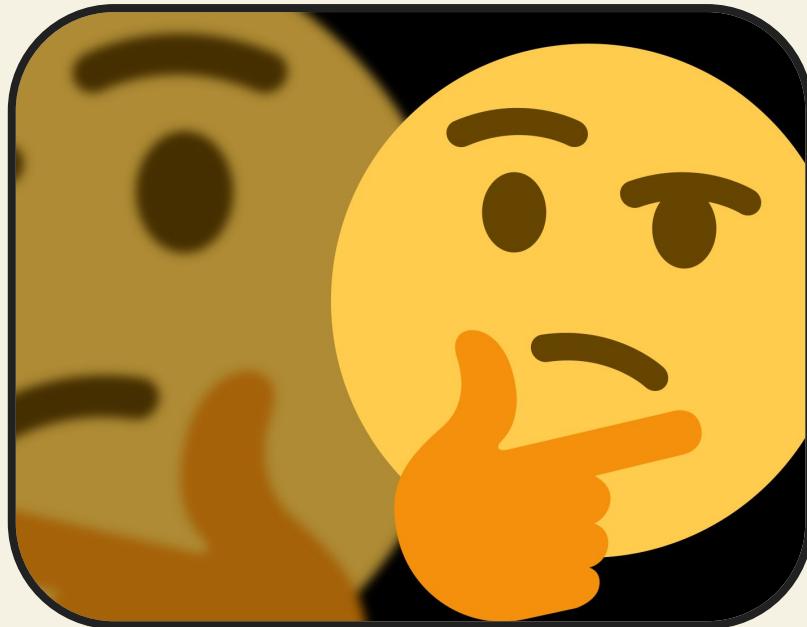
Don't Move folders, it breaks shit

Can get some spicy reverse shells



Advice

You're welcome for it



Be confident but
also “check your ego
at the door”



Be considerate when
working in the labs,
“smell yourself”





Learn from your miss steaks

Imposter Syndrome

You don't know it all



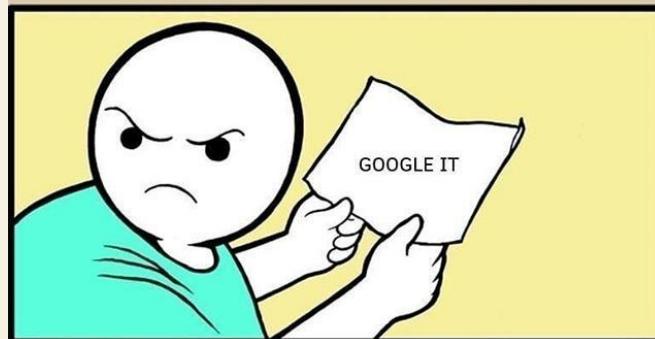


Ask Questions

Don't Bullshit

Admit when you don't know

Google it!





Online Persona

Zero Digital Footprint ≠ Infosec Job

Get a Twitter Account

Get LinkedIn, even tho it sucks





Internships

PAID!!

Internships are for all years

If not an internship do a summer project

Ask Grads - Discord #Internships

Networking at Conferences /
Online (Twitter)





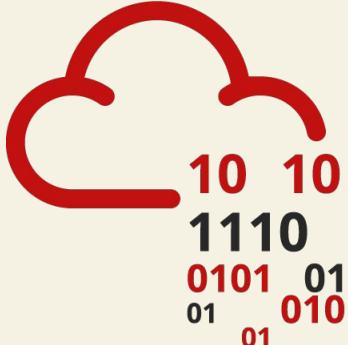
4 Years Isn't Long

Think about your career path
Find a topic you enjoy!

Get Involved

Conferences, Hackathons,
CTFs, Meetups, Volunteering,
School Talks

BO SIDES



Try
Hack
Me





Lectures

How Do You Learn?

Do what works for you

Take notes on what the
Lecturer says NOT the slides





Lecturers

Your guidance and it is up to you to take that opportunity

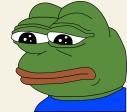
Lecturers of all ages and levels

Be **ON TIME** for class

They can help you with projects and opportunities



Lecturers Are Human Too!

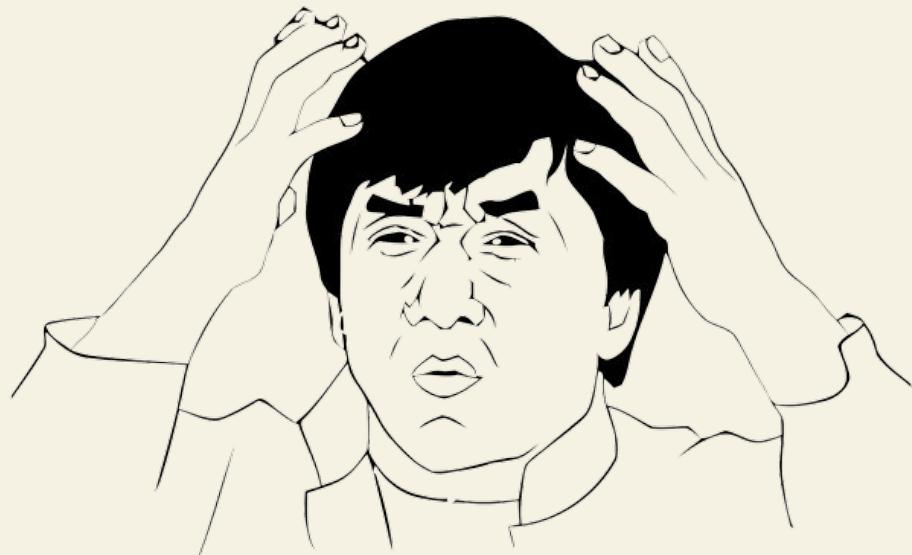


Reports

Learn How to Write a Good Report!!

Ask Higher Years & Grads for
Coursework / Help

Proofread





Jamie's Report Writing Quickies

1. Overview
2. Structure
3. Introduction
4. Aims
5. Methodology
6. Results
7. Discussion
8. Future Work
9. References
10. Abstract
11. Critical Analysis
12. Data Visualisation
13. Microsoft Word





Jamie's Research Writing Quickies

1. The Literature Review
2. Finding Literature
3. Analysing Literature
4. Related Work





Templates

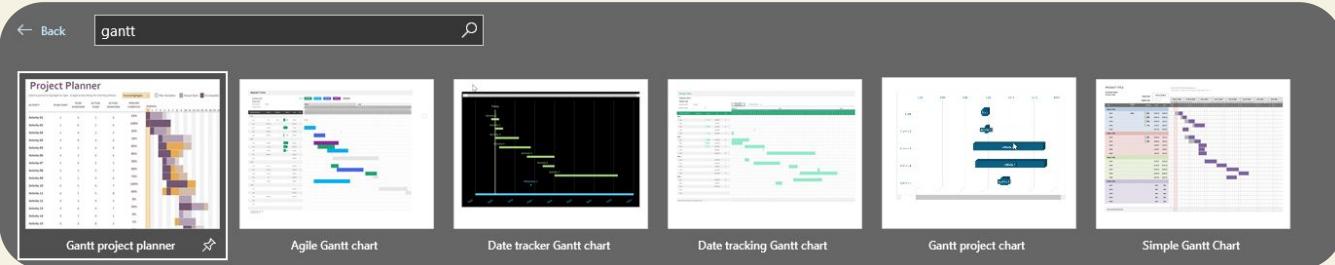
Someone smarter has already made it

Always check Google / Microsoft for Templates

Project management



Gantt chart
by Smartsheet



BACKUPS!!

Backup ALL coursework/reports





Resources

You can enter a subtitle here if
you need it



Account Breached?

[Home](#)[Notify me](#)[Domain search](#)[Who's been pwned](#)[Passwords](#)[API](#)[About](#)[Donate](#)

';--have i been pwned?

Check if your email or phone is in a data breach

Check

Generate secure, unique passwords for every account

[Learn more at 1Password.com](#)[Why 1Password?](#)

556

pwned websites

11,454,726,823

pwned accounts

114,131

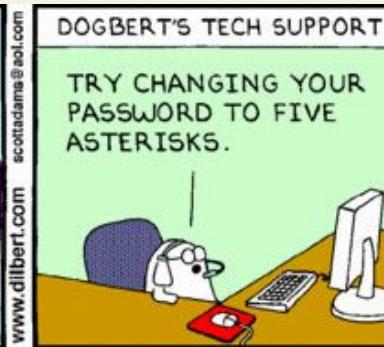
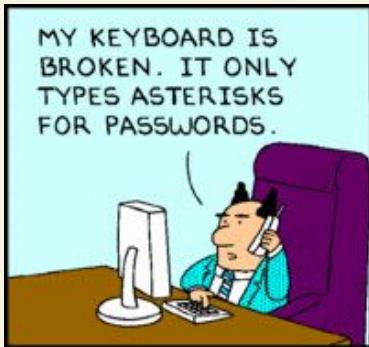
pastes

207,749,076

paste accounts

PassPhrases

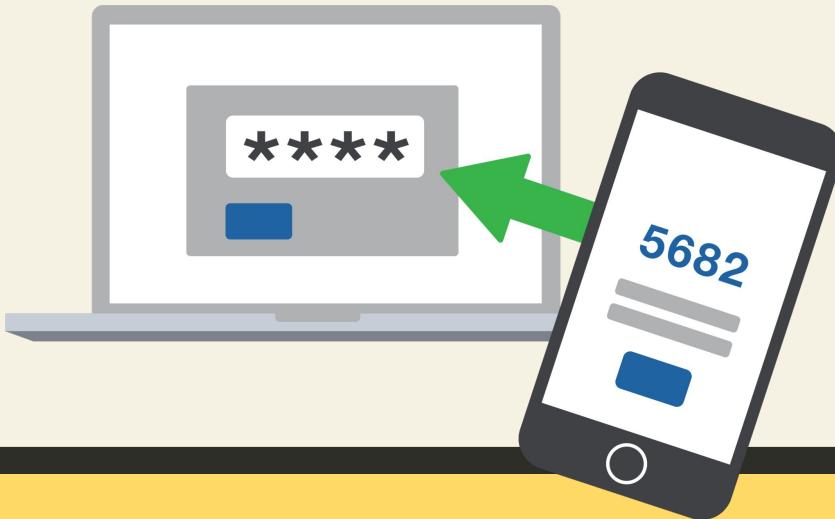
password.kaspersky.com



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Two Factor Authentication

It's annoying but necessary





Cyber News

The Register

theregister.co.uk

Hacker News

thehackernews.com

Digit 

digit.fyi

Vice

motherboard.vice.com

zdnet

zdnet.com

Darknet Diaries

[Infosec Twitter](#)



Password Managers



1Password



LastPass



KeyPass

Me: *fails to login

Me: Ok, so is my password
or my username wrong?

The website:

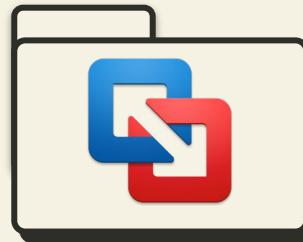




Virtual Machines



VM Workstation



VM Fusion



Twitter Accounts to Follow

@AbertayHackers

@joetidy

@MalwareTechBlog

@SwiftOnSecurity

@CyberResScot

@lorenzobf

@NCSC

@WiCS_Scot

@_Freakyclown_

@JackRhysider

@TheHairyJ

@josephfcox

@troyhunt

@AbertayCyber

@HollyGraceful

@Doctor_Hacker



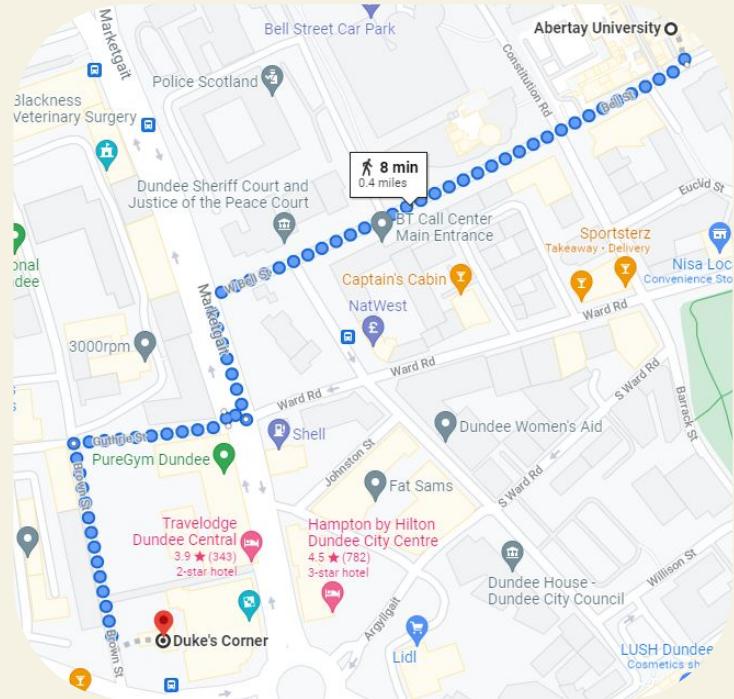
Securi-Tay X

March 4th, 2022





Hacksoc After Dark



Thanks for Listening

