



# 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



01

# First Year

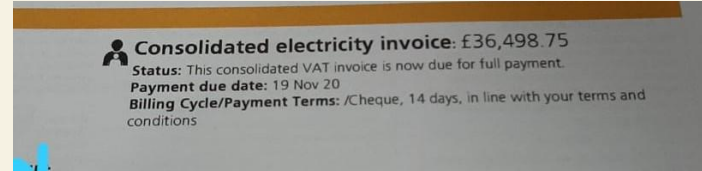
Change of scenery





# 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



alarmy stock photo



# 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](https://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



# DATA STRUCTS AND ALGS

## LEVELS OF HELL:

Limbo

Lust

Gluttony

Greed

Anger

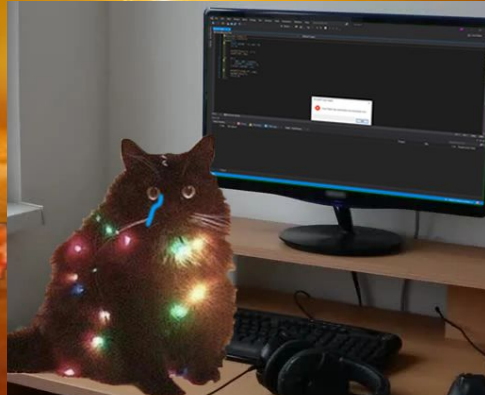
Heresy

Violence

Fraud

Treachery

Data Structures and Algorithms 1



**crush:** hey, come over ;)

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

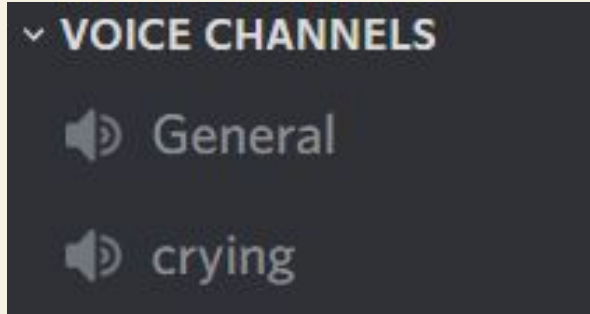
**crush:** my parents aren't home ;)

**me:**

|   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 7 | 6 | 5 | 6 | 7 | 8 | 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 |    | 20 |
| 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  |    | 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  | 10 | 11 | 12 | 13 | 14 |
| 6 | 5 | 4 | 5 | 6 | 7 | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 |

# Semester 2 Overview

- Digital Forensics 1
- Data Structs and Algs 2





# DATA STRUCTS AND ALGS NUMBER 21



## 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

03

# Third Year

When shit gets cool





## Semester 1

- Web App Hacking
- Networking 2
- Project Planning

## Semester 2

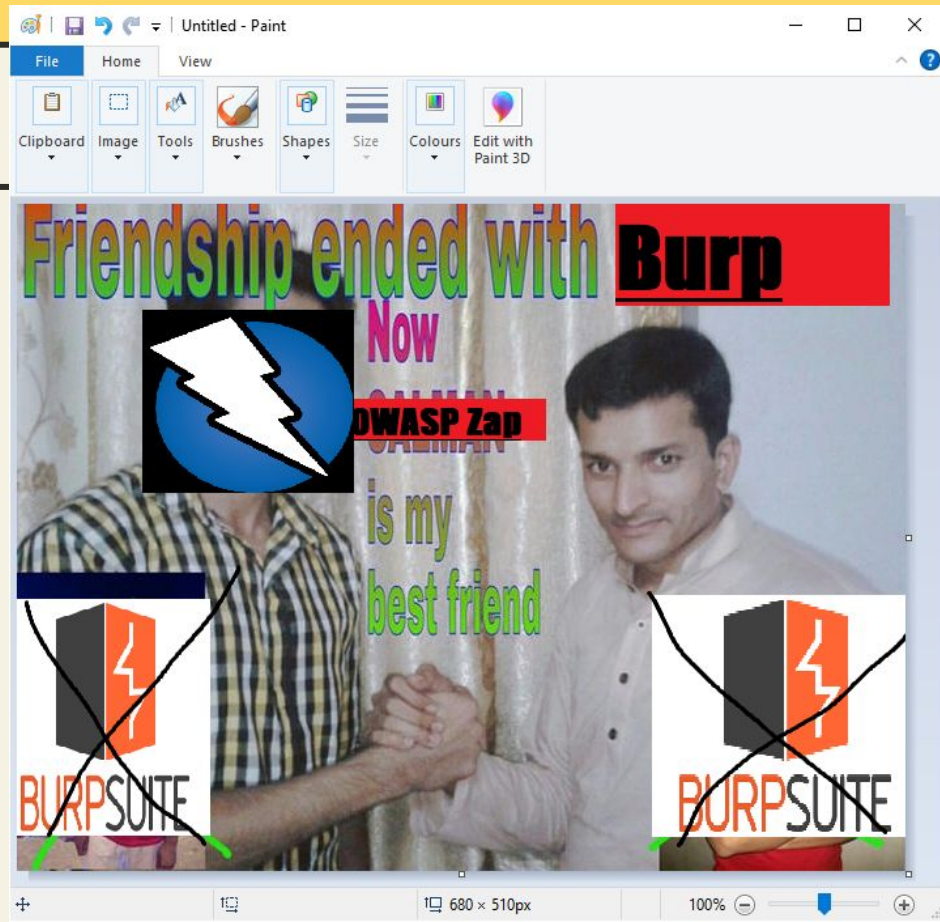
- Exploit Dev/Mini Project
- Android Dev
- Project Development



# Web App

OWASP Zap <3

OWASP or Web app Handbook



# Networking

Good Luck copy and pasting

CMP314 Github





# Project Planning/Development

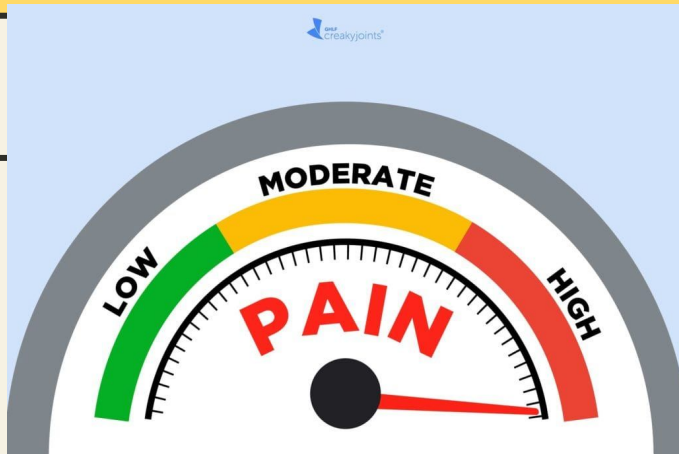
Not Marked on the actual  
development

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

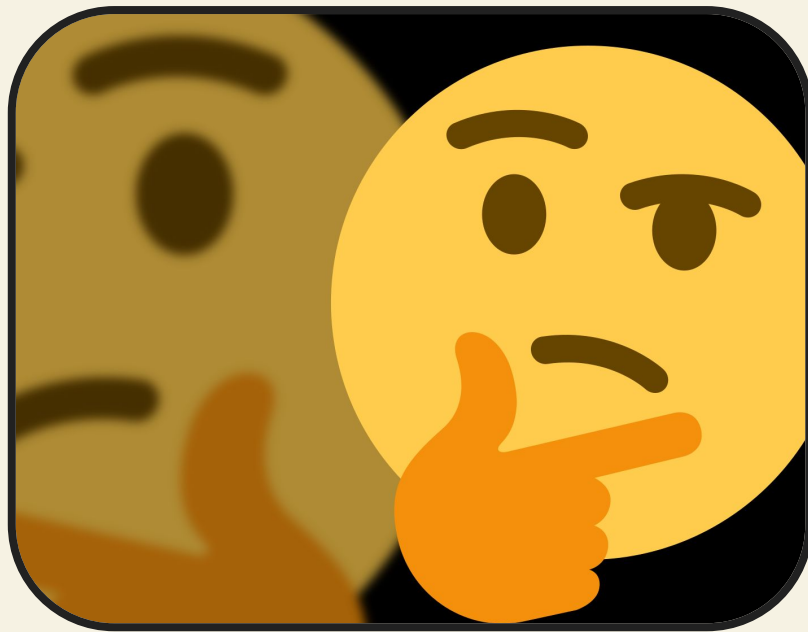
Don't Move folders, it breaks  
shit

Can get some spicy reverse  
shells

06

# 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  $\neq$  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



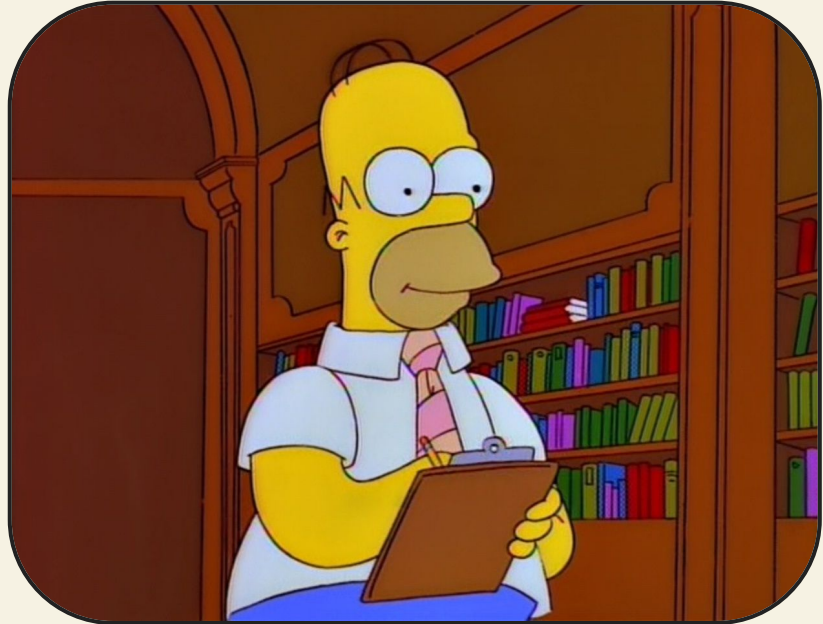
Try  
**Hack**  
Me

# 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

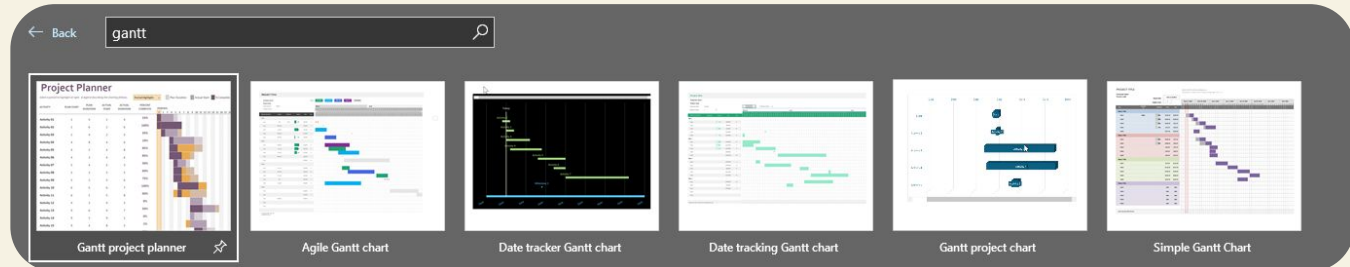
Someone smarter has already made it

Always check Google / Microsoft for Templates

Project management



Gantt chart  
by Smartsheet



# BACKUPS!!

Backup ALL coursework/reports







07

# 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

[pwned?](#)

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



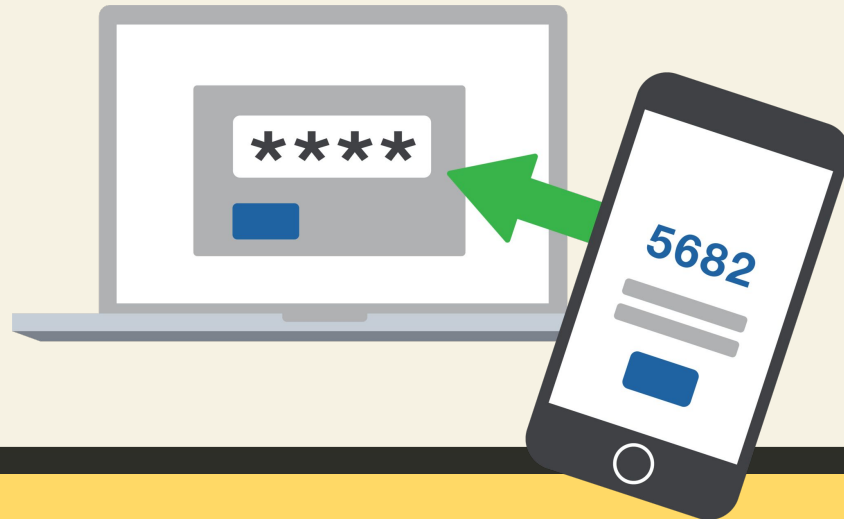
# PassPhrases

[password.kaspersky.com](https://password.kaspersky.com)



# 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

**zdnnet**

zdnnet.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



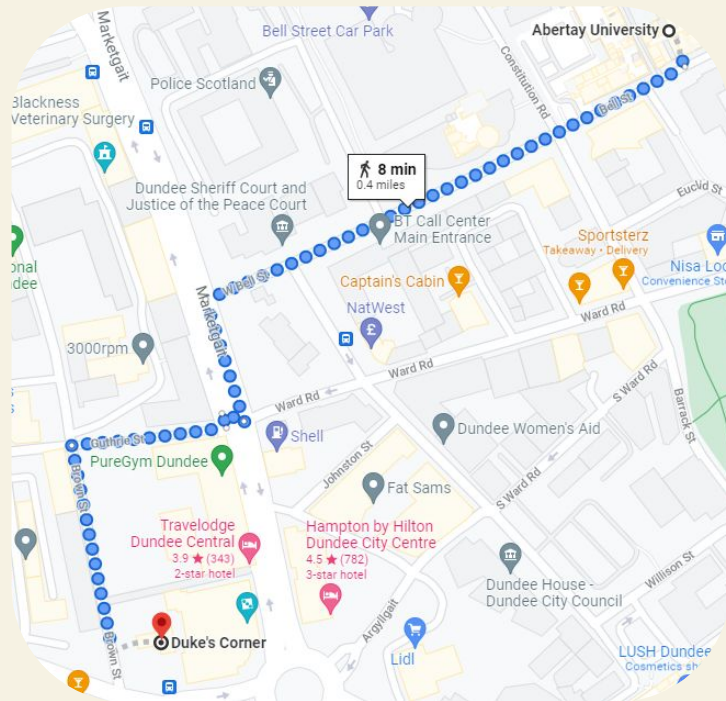
# Securi-Tay X

March 4th, 2022





# Hacksoc After Dark





**Thanks for  
Listening**

