

SUMMER STUDIO 2019 – CYBER SECURITY: AN OFFENSIVE MINDSET

The Journey of Mitchell Luke Tuck

WEEK	HIGHLIGHTS	LOWLIGHTS	PREVAILED
1	Guest Speaker Robert Mitchell - GitLab Security Team	Team member dropped out day before presentation	With an emergency meeting and a flexible approach, we re-distributed the workload
	Created a functional website	Balancing Summer Studio + work	Utilised Microsoft Planner to effectively map out my weeks maximising performance
	First time hearing about OWASP Top 10 (2017)	Understanding what was required of us	After contacting the teaching team, they cleared this issue up
2	Guest Speaker Luke Fuehrer – Red Team	Expanding my websites capabilities	Time, effort and research of static sites paid off
	Ability to apply the Agile Methodology	Designing a layout to express my portfolio effectively	I wrote out a physical layout on a piece of paper, then mapped this out in markdown language on the website
	Successfully completed PentesterLab's XSS & MySQL lab	Issue fully understanding SQL injections	Researched about these further, something to expanded during DB Fundamentals in S1
3	Guest Speaker Viren Khatri, Simon Baeg, Nathan Jones - Deloitte's Cyber Intel Centre (CIC)	Initially choosing John The Ripper	The lack of information was manipulated in a positive way as we physically utilised it to learn from, no over-flooding of information
	Learned about the ExploitDB	Learning how to migrate to a Private Domain	Though this was very time consuming, researching it taught me a lot about how websites are created, was very interesting!
	Migrated over to a Private domain (root9b.tech)	D-Day: Website Down	After many hours lost Sunday night, I identified it was an SSL Certificate issue, I modified website host and DNS to temp rem. HTTPS sec
4	Guest Speaker Ruben – Reverse Engineer	Website issues from local machine	Able to VPN out which allows access to website, something to fix once studio is over
	Reverse Engineering Binary – Completed two challenges	Realising how hard RevEng + HTB is	Though it is hard, I know I can beat these now as shown in this studio, anything's possible!
	Gained Root access to the Curl box on HTB	That this studio is coming to an end	Knowing that what I've learned I'm able to continue on and become an expert