



SecurityLit

# Internship Portfolio

Cale Budd

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# Summary

## Cale Budd: Internship Portfolio

My role as a business management intern with Security Lit started on the 15th of November 2021 and included 400 hours of work over 10 weeks, concluding on the 11th of February 2022. My work at Security Lit was varied and was spread across three main areas: an eLearning project, an NFT project, and penetration testing. I was involved in both administration and technical work including report writing, research, meetings, financial planning, public speaking, programming, and penetration testing.



### eLearning Project

My primary task throughout the duration of the internship was to prepare a business plan including financial forecasts and marketing planning for an online cybersecurity education platform Security Lit plans to develop.



### NFT Project

A secondary project I was involved in was an NFT artwork project where my tasks included programming, working with smart contracts, and working with the IPFS protocol.



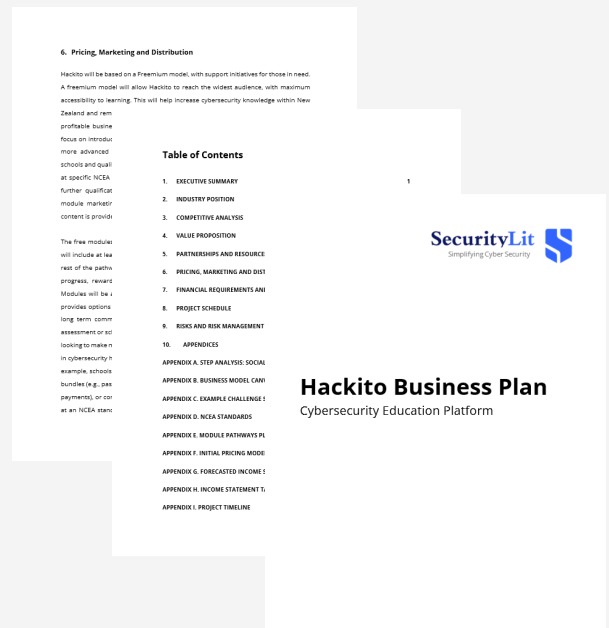
### Penetration Testing

The final part of my internship included learning and applying penetration testing skills by identifying technical vulnerabilities in clients' websites and generating reports based on these findings.

# eLearning Project

Cale Budd: Internship Portfolio

At the beginning of my internship I was introduced to a concept of an online cybersecurity education platform that I would be creating a business plan for. This would be the primary task for the duration of my internship and I would work on this report whenever I had no other tasks to do and was given the duration of my internship to complete this. In addition to writing the plan I was also tasked with arranging funding and conducting primary research through presentations and surveys.



## Final Report

The final business plan was 7,000 words and was entirely created by me during my time at Security Lit. This project was challenging as it was a new idea for Security Lit so the project lacked clear planning and direction. Creating the plan required significant market research, financial planning, graphic design, and product testing.

## Presentation

This PowerPoint was created by me in support of my presentation to the Ethical Hackers of Aotearoa group. The presentation aimed to provide insight into what people wanted from the platform. It involved speaking about the platform and then seeking feedback from the group to incorporate into the plan.

## Funding Application

Another aspect of creating the business plan was arranging funding for the project. With online platform development costs being extremely high, part of my role was to apply for funding the platform qualified for. This involved research into opportunities, video calls with potential funding organisers, and submitting funding applications.



# Penetration Testing

Cale Budd: Internship Portfolio

The final and most stimulating aspect of my internship at Security Lit was penetration testing. This is Security Lit's primary operating activity which involves testing a client's website or network for vulnerabilities, writing finding reports, and advising solutions. I was involved in the penetration testing process for a client from the initial introduction meeting, through physical testing, all the way to writing the final report. The final report is 3,500 words long but is unavailable to be shared do to client confidentiality.



## Onboarding Client

To onboard a new client for penetration testing there are lots of meetings and documents which outline the scope and agreements for testing. Part of my role was attending introduction meetings and overhauling the forms for onboarding clients. This involved designing and creating new forms that captured all necessary information.

## Penetration Testing

Penetration testing requires a lot of cybersecurity technical skills to attempt to break into a network and this was my first opportunity to test my skills in a real engagement. I was part of the core testing team which required a mixture of manual testing and use of automated tools to find and exploit vulnerabilities.

## Final Report

My final role in this part of my internship was to create the final report summarising our findings from the penetration test. The report had to be delivered within a time frame and to a high standard. My role was to collate all the issues we had found into one document, format it, and provide appropriate recommendations to the client.

# Discussion

## Cale Budd: Internship Portfolio

My time spent at Security Lit was extremely beneficial for my own personal, professional, and technical development. I worked with a talented, multicultural team over a mixture of tasks both inside and outside my comfort zone. The way Security Lit approaches something new is with determination to learn and this was an awesome culture to be a part of. This experience has also made me sure that a management role in the technology field is what I want to pursue. My role at Security Lit provided perfect balance between business and technology which made the 10 weeks pass extremely quickly.

My favourite part of the internship was the penetration testing part as it incorporated all of my technical skills and my business skills. It required a professional approach to meetings, guidelines, and contracts, then utilised technical skills for testing, and then required report writing skills for both depth and clarity in the final report. I found this internship to be really insightful due to the depth of involvement I had in the company. Being a small business meant that often everything was out in the open and I had the opportunity to see the bigger picture rather than just working on an individual aspect. This is both refreshing and motivating and will be invaluable insight for me moving further into the business world.

I was fortunate enough to work with a team I respected and who treated me with mutual respect. As a result I have been offered a further contract position with Security Lit with details yet to be confirmed.



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