# Andy Lee

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## Summary

I am an enthusiastic and dedicated third-year Software Engineering student at the University of Auckland, eager to apply my programming skills and passion for software development in a challenging internship role. I aim to contribute my knowledge, problem-solving abilities, and team collaboration skills to gain practical experience in a professional setting. I have an interest in Network security and Cybersecurity. I am seeking an internship role during my summer break (November 2024 to February 2025).

## Educational Background

**University Of Auckland**                                                        Expected: Nov 2025
**Bachelor of Engineering (Honours) – Software Engineering**
- Average GPA: 7.9

## Work History

**KFC Cook [December 2021 - February/2022]**
- Demonstrated strong time management skills in a high-pressure, fast-paced environment.

**Private Tutor in Mathematics [January/2021 - November/2021]**
- Assisted in delivering educational content to a student studying NCEA level 3.

## Projects - for more info [Project Website](#)

**Internet Banking Software - [Internet-Banking-System](#)**
- Developed an Internet Banking Software application using HTML programming, incorporating user data storage and security measures.
- Implemented robust data security practices, including hashing techniques and encryption, to ensure the protection of user information.

**University Gaming Project (Collaboration) - [Escaipe-Room](#)**
- Worked in a group of 3 developers to design and create an escape room application for the client Brain-e-Riddlers.
- Integrated the OpenAI API to generate unique experiences and riddles for each playthrough using prompt engineering.
- Significantly reduced response times and prevented freezing by implementing multi-threading and concurrency.

**AI Neural Network Driving Simulation - [Neural-Network-AI-Car](#)**
- Implemented a genetic neural network architecture using Deeplearning4j, demonstrating proficiency in configuring and training neural networks.
- Explored and implemented various techniques, including iteration cycles, combining neural networks, mutation, predicting output, and creating appropriate network layers.

**Network Packet Analyser - [Network-Analyzer](#)**
- Developed a network packet analyser using NpCap to capture and analyse packets from various protocols and transport types.
- Designed a tool to detect malicious activity by monitoring packet structures and behaviours in real-time.

## Skills

**Languages:** Java, JavaScript, HTML/CSS, SQL, C, C++, MATLAB, LaTeX
**Tools/Frameworks:** Git/GitHub, Terminal, Linux, Agile, MySQL, React, Node, Express, MongoDB, SpringBoot

## Certificates

Google Cybersecurity Professional Certificate - [Credential](#)