

+254112579011

[chanlueth@gmail.com](mailto:chanlueth@gmail.com)

## REBECCA CHAN

### EDUCATION

---

#### Strathmore University

**Major:** B.Sc. Computer Networking and Cybersecurity

**Certificates:** CCNA1, CCNA2, CISSP, Cisco Certified Cyber Ops Associate, FCF, FCA, Extreme Certified Associate in solutions design, Extreme Certified associate in solutions selling, Extreme Certified Associate in extreme SD-WAN

**Programming Coursework:** Object Oriented Programming 1&2, Mobile Application Development, Server Administration, Ethical hacking, WAN Technologies

**Cybersecurity coursework:** Ethical hacking, Cryptography, Wireless and Mobile security, Internetworking communication systems.

### EMPLOYMENT

---

#### Assistant administrator, Intern IDACA Foundation, Juba SSD – May- August 2021

- Data analysis, processing and cleaning: Used programming languages like Python to automate data cleaning and processing tasks.  
Create scripts to handle large datasets efficiently, saving time and ensuring data accuracy.
- Automation of Reports: Wrote scripts to automate the generation of regular reports, saving time and reducing the risk of manual errors.  
Used tools like Jupyter Notebooks to create and share interactive analysis workflows.
- Database management and interaction  
Utilized SQL and programming languages to query databases and extract relevant information for analysis.

#### Peer facilitator, Intern Kenya Red Cross Society, Nairobi, Kenya – Jan-April 2023

- Actively participated in the school programs organized by KRCS aiming at education school children on the importance of their safety on the road.
- Visited children at juvenile, giving them a sense of belonging and acceptance.  
Teaching members of the children homes we visited basic first aid skills.
- Still an active member and volunteer at the Kenya Red Cross Society till date.

## Technical, cybersecurity and IT Engineer, Leadway Technologies LLP –

Jan 2023- to date

- *Risk Assessment and Mitigation:* Identify and address system vulnerabilities to minimize potential risks, employing strategies like patching, firewall configurations, and policy updates
- *Incident Response:* Lead investigations into security breaches, collaborating with IT teams and law enforcement to contain threats and restore system integrity.
- *Security Architecture Design:* Develop and implement robust security architectures for IT systems, integrating security measures at every level.
- *Security Testing and Auditing:* Regularly test and audit systems to identify weaknesses, ensure compliance, and stay ahead of emerging threats.
- *Education and Training:* Provide ongoing education and training to staff on cybersecurity best practices and emerging threats, staying updated on industry trends and technologies.

## Presales, Leadway Technologies LLP – Jan 2024 to date

- *Solution Design:* Collaborate with sales teams to understand client needs and design customized cybersecurity and IT solutions tailored to their requirements.
- *Technical Expertise:* Serve as the technical authority during pre-sales engagements, providing in-depth knowledge about products, services, and industry standards to address client queries and concerns.
- *Proposal Development:* Contribute technical insights and recommendations to proposal documents and presentations, demonstrating the benefits and value proposition of proposed solutions.
- *Proof of Concept (POC) Development:* Lead the development and execution of POCs to showcase the feasibility and effectiveness of proposed solutions, addressing client-specific use cases and requirements.
- *Client Engagement and Support:* Engage with clients during the pre-sales process to build relationships, address technical inquiries, and provide support in evaluating and understanding the proposed solutions.

## SOFTWARE PROJECTS

GitHub link : <https://github.com/>

---

### 2FA system

Created a two-factor authentication (2FA) system that provides an additional layer of security for user authentication. It allows users to log in with their username and password and then verify their identity using a one-time password (OTP) generated by their authenticator app.

### **Secure File transfer**

This project is a secure file transfer application that allows users to upload and download files securely over the internet. It provides a simple web interface for users to upload files, which are then securely stored and can be accessed later for download.

### **Packet analyzer**

This project is a basic network packet analyzer tool that allows users to capture and analyze network packets from a specified network interface. It provides a simple web interface for capturing packets and displaying basic packet information.

### **Game**

This project is a word animation game where players have to guess a word before time runs out. It provides a fun and engaging way to test players' vocabulary and quick thinking skills through animated word hints.

### **To-Do-List**

This project is a simple to-do list web application that allows users to manage their tasks by adding, editing, marking as complete, and deleting tasks from a to-do list. It provides a clean and user-friendly interface for managing tasks efficiently.

### **Recipe App**

Developed a comprehensive recipe application featuring intuitive user interfaces, providing step-by-step instructions, ingredient lists, and estimated preparation times for a diverse range of meals.

Leveraged programming skills in Kotlin to create a dynamic and responsive application, offering a seamless and engaging platform for users to explore and follow recipes.

Incorporated a time estimation feature to assist users in planning and executing meals efficiently, promoting convenience and precision in the kitchen.

### **Weather App**

Engineered a weather application with a user-friendly interface, providing real time weather updates, forecasts and detailed information based on one's location.

## **NETWORK SECURITY PROJECTS**

---

Implementation of active Domain Name Servers and integrating them with OS

Creating and activating Email servers, securing them and making them compatible with different operating systems from Windows to Linux and Unix systems.

Activating a new OAuth2.0 systems for user authentication and authorization to access websites.

## PERSONAL PROJECTS

---

### **IDPS monitoring system for network security**

Created a virtual network environment with open threats and vulnerabilities and defined the placement and implementation plan and added a monitoring system, that not only detects threats but goes a step ahead to stop them.

Used my skills learnt in IOT to create and implement active virtual sensors that could detect and send alerts in real time.

### **National Tree Planting Day Website Development**

Designed and developed a website dedicated to National Tree Planting Day, featuring a userfriendly interface. Users can securely log in to register for events, record planted trees with location details and images.

The platform facilitates a self-sustaining database, visually mapping the geographical distribution of planted trees.

### **User authentication tool using machine learning**

Implemented an authentication factor that goes beyond simple biometrics and uses key stroke patterns from users to detect potential intrusions using machine learning.

### **Signature Fraud Detection using Neural Networks.**

Created a fraud detection system that allows users to store their signatures and trained the system using Keras's model (Neural Networks). Then used python to display the system and allow users to compare their signatures to detect fraud.

## SKILLS

---

**Software:** C++, Java(Advanced), JavaScript, Kotlin, SQL, Unix (familiar) Python, HTML/CSS(Advanced) **Network Security:**

Firewall and Intrusion Detection and Prevention Systems implementation and network monitoring systems, Penetration testing, Device-network and data encryption, Forensic analysis and threat intelligence, Security Information and Event Management (SIEM) and Identity and Access Management Systems, Ethical Hacking **Analytical skills:**

Threat analysis, Risk Management and Security metrics.

### **Interpersonal Skills**

Effective communication, Problem solving, Collaboration

**Soft Skills:** Presales

