

# ZAKARIYA SALEH

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## SUMMARY

Motivated Telecommunications and Computer Engineering student with hands-on experience in networking (CCNA), programming, and machine learning projects in telecom. Fast learner with strong problem-solving and teamwork skills, actively seeking industry internships.

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## EDUCATION

### Telecommunications and Computer Engineering

October 2023 – June 2028

Lebanese University-Faculty of Engineering

- Relevant coursework in Programming(C/C#), Networking, Statistics, Probability, Databases, Data Analysis Fundamentals and Machine Learning.

## CERTIFICATIONS

- Cisco Networking Basics - [Badge](#)
- Cisco CCNA: Introduction to Networks - (In Progress)
- Cisco CCNA: Switching, Routing, and Wireless Essentials - (In Progress)
- Cisco Ethical Hacker - [Badge](#)
- FreeCodeCamp: Scientific Computing with Python - [Certificate](#)

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## PROJECTS

- **Network Anomaly Detection - NSL-KDD Dataset - [GitHub](#)**

Built an XGBoost classifier to detect network attacks, performing both multi class and binary classification. Achieved 0.865 accuracy for multi-class and 0.872 for binary. Provided feature importance analysis and insights into network anomalies.

- **4G/5G RSRP PREDICTION - [GitHub](#)**

Predicted RSRP using Random Forest Regression from device and network parameters. Achieved  $R^2$  of 0.89 and MSE of 12.62. Includes data preprocessing, model evaluation, and feature importance.

- **Pneumonia Detection from Chest X-Rays - [GitHub](#)**

Developed a CNN for binary classification on chest X-rays. Achieved 0.81 accuracy. Handled data preprocessing, model training, and evaluation.

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## TECHNICAL SKILLS

- Programming languages: C, C#, python
- ML & Data Analysis: Supervised & unsupervised learning, regression, clustering, Random Forest, neural networks, statistics, probability
- Networking: Routing & switching, subnetting, VLANs, OSPF, ACLs, network configuration.
- Tools & Libraries: Linux, MATLAB, Excel, Wireshark, pandas, NumPy, scikit-learn, TensorFlow, NetworkX, Scapy

## SOFT SKILLS

- Teamwork, communication, strong work ethic, fast adaptability
- Languages: Fluent in English, Arabic and French