Sari Barakat

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PROFILE SUMMARY

Experienced Network Engineer with a strong background in designing, implementing, and maintaining advanced network infrastructure, including fiber-optic systems. Proficient in digital signal processing, machine learning, and geospatial analysis using Google Earth Engine. Proven ability to manage large-scale projects, enhance connectivity, and improve network performance. Holds a Master's degree in Computer and Communication Engineering with extensive coursework in network design and security. Recognized for delivering projects on time and within budget, and achieving high customer satisfaction.

EDUCATION

Bachelor of Science in Computer Engineering   10,2014 – 06, 2018
Lebanese International University/Beirut

Master of Science in Computer and Communication Engineering   02,2022 – 06, 2024
Lebanese International University/Beirut

RELEVANT COURSEWORK

Advanced Network Design | Internet Protocols and Architecture | Routing and Switching | Wireless Networks | Network Security | Telecommunications Systems | High-Speed Networks | Quality of Service (QoS) | High-Speed Networks | Automation, Control and Security Systems | Digital Signal Processing | Software Engineering | Data Center Networking | Optical Networks

PROFESSIONAL EXPERIENCE

RY-TECH – *Senior Network Engineer*   Jan 2024 – Present

- Design and development: Spearheaded the design and implementation of automation systems, including software and hardware integration.
- Project Management: Led multiple projects from conception to deployment, ensuring timely completion and adherence to budget constraints.
- Technical Support: Provided technical support and troubleshooting for automated systems, ensuring minimal downtime and maximum productivity.

Barakat Tech – *Network Engineer*   Dec 2021 – Dec 2023

- Developed a predictive maintenance program that decreased network downtime, enhancing customer satisfaction and reliability of service.
- Designed and implemented a new diagnostic tool that reduced the time to identify and fix network issues by 30%, significantly improving team productivity.
- Designed and implemented a new network architecture that increased system capacity.
- Identified and rectified inefficiencies in the existing network setup, saving in operational costs while maintaining optimal performance levels.
- Led a cross-functional team to successfully deploy a city-wide fiber-optic network.

MISP – *Technician*   Dec 2020 – Nov 2021
- Install and full maintenance for wireless end users and resellers.

- Installed and configured network equipment such as routers, switches, and modems for residential and commercial clients.
- Diagnosed and resolved network issues on-site and remotely, ensuring minimal downtime for customers.
- Installed, terminated, and tested network cabling, including fiber optics and copper wiring, adhering to industry standards.
- Installed and configured wireless networks, including access points and wireless controllers, ensuring optimal coverage and performance.

Barakat Tech – *Technician and Customer Support*   Jun 2017 – Oct 2020

- *Improved customer satisfaction and enhancing the troubleshooting process.*
- *Maintaining high quality of service by collaborating with the technical team.*
- *Trained for the latest troubleshooting techniques for high-speed internet services.*
- *Provided exceptional technical support, achieving a 98% customer satisfaction rating for effectively resolving complex connectivity issues.*
- *Restoring service within record time and reducing outage complaints.*
- *Install and full maintenance for wireless end users.*
- *CCTV and IP camera, alarm system and IP video phone and sentral installation.*

TECHNICAL SKILLS

Networking Protocols and Standards | Wireless Technologies Routing and Switching | Network Troubleshooting and Tools | Expert in Mikrotik, Mimosa and Ubiquiti programming | Fiber optic installation and maintenance | Installation and maintenance data centers and servers | Controls and real time systems programing and development | programming languages as python, JavaScript, java, html, c/c++ and php.

PROJECT EXPERIENCE

Advanced Voice Authentication System   *Oct* 2023 – Jun 2024

- Designed the overall architecture of the voice authentication system, including the integration of DSP and ML components.
- Implemented DSP techniques to preprocess audio signals, including noise reduction, feature extraction, and signal normalization.
- Developed and trained ML models using various algorithms.
- Designed and developed a user-friendly interface for enrollment and authentication, providing a smooth user experience.
- Implemented advanced security measures, ensuring that the system met high standards for data protection and user privacy.

Built-Up Area, remote sensing   *Feb* 2024 – Jun 2024

- Performed preprocessing steps including cloud masking, atmospheric correction, and image calibration to ensure data quality.
- Conducted time-series analysis to monitor changes in built-up areas over specified time periods, identifying trends and patterns in urban expansion.
- Compiled comprehensive reports detailing the methodology, analysis, and findings. Documented the GEE code and workflow for reproducibility.
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Snow Area, remote sensing   *Feb* 2024 – Jun 2024

- Collected high-resolution satellite imagery, such as Landsat, MODIS, and Sentinel-2, available through GEE for the analysis of snow-covered regions.
- Created interactive maps and visualizations using GEE's tools to display snow cover dynamics and facilitate interpretation of the results.

Kfarqatra-Wide Network Upgrade to Fiber Infrastructure   *May* 2022 – Aug 2023

- Project Planning and Management
- Supervised and participated in the installation of fiber-optic cables, including underground and aerial deployment. Configured network equipment such as optical network terminals (ONTs), switches, and routers.
- Troubleshooting and Support
- Conducted extensive surveys to assess the existing infrastructure and designed a new fiber network layout that optimally covers the entire city.

VOLUNTEER EXPERIENCE

Paramedic   Feb 2013 – Sep 2015
- Work as teamwork.
- Completed advanced first aid and emergency response training, enhancing my ability to respond effectively to emergency situations and provide critical support.

CERTIFICATIONS

CISCO Certificates

- CCNA1   Oct 2017 – Feb 2018

- CCNA2   Feb 2018 – Jun 2018

5G Online Course at Huawei HCIA   Nov 2023

LANGUAGES

Arabic

- Native or Bilingual Proficiency

English

- Full Professional Proficiency