Mohammad Diab

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COMPUTER & NETWORK ENGINEER | FULL STACK SOFTWARE DEVELOPER

Dynamic Computer and Communication Engineering graduate with a Master's in Computer Science. Experienced in networking, web development, database systems, and IT concepts. Skilled in programming and practical projects, with strong soft skills. Seeking opportunities to leverage technology for innovative solutions.

KEY COMPETENCIES

- **Programming Languages:** JavaScript, Typescript, Java, Python, C#, C, PHP, HTML, CSS
- **Frameworks:** React js (Redux toolkit, React Router, Formik, Axios), Node js and Express ,Bootstrap, jQuery, .NET(VB.NET),
- **Networking:** Network Administration(Linux, Windows) , Network Security, TCP/IP Fundamentals, Network Configurations within the Cisco IOS (Router and Switch configuration, IP Addressing and VLANs)
- **Telecommunication:** VoIP, DSL, Telephony Systems, Fiber Optics, UMTS(3G/4G/5G), Antennas Design, Digital Signal Processing, RF Circuit Design, Microcontroller Programming
- **Database:** SQL(MS-SQL, MySQL), NoSQL(MongoDB), Database design, ETL, Query optimization
- **Others:** Git, GitHub, Design Patterns, Data Structures, Sockets, Agile(Scrum), Operating Systems , AI and Machine learning Algorithms and Techniques,.

PROFESSIONAL EXPERIENCE

Internship at Africell Group   Jun 2023 - Jul 2023
in Web Applications development & Mobile Telecommunications

- Developed a web application using Visual Studio (VB.net) and SQL Server Management Studio to efficiently manage subscriber data within the company's system.
- Monitored and analyzed KPIs for 2G, 3G, and 4G networks, ensuring optimal network performance and reliability.
- Possess a theoretical understanding of GSM/UMTS/LTE network architecture, facilitating effective problem-solving and decision-making in network management.
- Regularly generated detailed daily reports on the network's cited condition, providing insights for performance evaluation and optimization.

Internship at OGERO (Saida)   Sep 2022 - Dec 2022
in Networking and Telecommunication Systems

- Valuable experience in optimizing digital transmission and transport networks. Conducted OSP electrical tests and performed Dynatel965 DSP performance tests to ensure network reliability.
- Skilled in fiber optics fundamentals and Wi-Fi network design. Managed DSL, ADSL systems, and implemented VoIP solutions using SIP protocol.

PROJECTS

Senior Projects:

- Movie Tracking & Review Platform – A web app for users to sign in, track favorite movies, write reviews, create watchlists, and rate movies. Used HTML, CSS, JavaScript, PHP, MySQL, Bootstrap, and jQuery, integrating TMDB APIs for comprehensive movie details.
- 5G MIMO Antenna Design – Designed and simulated a Microstrip Slot Antenna for 5G applications using CST Studio Suite, optimizing performance for high-frequency communication.

Mini-Projects:

- Library Management System (Java, OOP, Design Patterns).
- ETL & Data Migration (Python, MySQL, SQL Server, BCP, Batch files).
- E-commerce site (React, TypeScript, Redux, JSON Auth, JSON server).
- Responsive Food-Ordering Website with Admin Dashboard (React, Nodejs, Express, MongoDB, WhatsApp API for real-time order notifications)
- Real-Time Chat Application (MERN stack, Socket.io for WebSocket-based communication)

EDUCATION

Lebanese University – Faculty of Technology
Bachelor's Degree in Computer and Communication Network Engineering
Completed in 2023

Lebanese University – Faculty of Science
Master's Degree in Computer Science (M1)
Completed 2024