

# Dalal Alzuabi

I am a highly motivated student specializing in Computer Networks & communications with a solid foundation in network design, wireless networks, cybersecurity, and system administration. I have practical experience working with technologies such as Cisco for network configuration and simulation, Linux for system management, and machine learning for security applications. Passionate about solving complex technical challenges and optimizing systems, I am eager to apply my skills in real-world projects and continue growing in this dynamic field.

---

## Skills & abilities

- ❖ Networking: Design, management, routing, switching, IP addressing, and wireless networks.
- ❖ Cybersecurity: Penetration testing, vulnerability assessments, encryption, firewall and honeypot configuration.
- ❖ Machine Learning & AI: Model development for security applications.
- ❖ System Administration: Management of Windows/Linux OS, Active Directory, and server environments.
- ❖ Web Development: Front-end and back-end development (HTML, CSS, JavaScript).
- ❖ Programming: Java, C++, network programming.

## Education

King Faisal University

Aug 2020 – June 2025

Bachelor of Computer Networks & communications (Expected)

Certified Wireless Analyst – Telecommunications Certification Organization (TCO)

Issued May 2024

## Experience

### • Advanced Network Design & Implementation:

Expertly designed, configured, and managed complex network infrastructures using Cisco tools, demonstrating deep knowledge of IP addressing, subnetting, and various networking protocols. Delivered a complete, functional network setup, ensuring robust performance, reliability, and efficient communication.

### • Wireless & Mobile Network Solutions:

Developed expertise in wireless and mobile networking, with hands-on experience in cutting-edge projects, including the design and implementation of an IoT solution using ultrasonic waves and Arduino. This project honed skills in integrating emerging technologies into practical applications.

### • Comprehensive Network Security & Protection:

Mastered network security principles, including encryption, decryption, and securing wireless infrastructures. Led the design and implementation of a multi-building network with comprehensive security measures, including honeypots, firewalls, and advanced protocols to ensure data integrity and network safety.

### • Advanced Systems Administration & Active Directory Management:

## Languages

- Arabic – Native
- English – Bilingual, Fluent

Gained extensive hands-on experience in administering complex systems, including managing multiple servers, configuring Active Directory Domain Services (AD DS), and ensuring the seamless operation of organizational networks. Proficient in managing user accounts, access control, and security protocols within diverse IT environments.

### • Deep Understanding of Operating Systems & Linux:

Developed a profound understanding of both Linux and Windows operating systems, acquired through intensive coursework and practical experience. Excelled in network simulation, monitoring, and troubleshooting using industry-leading tools like NS3 and Wireshark, ensuring optimal network performance and security.

### • Web Programming & Database Development:

Gained significant expertise in full-stack web development, including designing and implementing responsive user interfaces and managing back-end databases. Applied knowledge of various programming languages and frameworks to create dynamic, scalable web applications.

### • Distributed Systems & System Management Expertise:

Passionate about distributed systems, with specialized experience in system management, including server administration, monitoring, and optimization of large-scale networks. Led projects focused on managing and securing large server environments, ensuring high availability and performance.

## Accomplishment

### • Graduation Project:

Developed a machine learning model for identifying suspicious links on the internet, combining cybersecurity and machine learning to address real-world security concerns.

### • Hackathons & Competitions:

#### • Innovators Hackathon – Python (Bank Al-Jazira):

Developed a tourism website for Al-Ahsa using Python, highlighting the city's best experiences through customized travel packages.

#### • Unithon (King Faisal University):

Created a prototype website to help students improve academic performance by identifying weaknesses and providing quick assessments.

#### • Innovation in Health & AI Hackathon (King Faisal University):

Designed an AI-based system to record patient-doctor interactions, suggest medications, and streamline appointment scheduling.

#### • Diwan Innovation Hackathon (Misk):

Contributed to a project helping visually impaired individuals by developing an IoT-based device aimed at increasing their independence.

#### • Saudi University-wide Hackathon – “Code Labs 2”:

Led a team that won the competition by creating a device to detect hazardous leaks

in laboratories and alert the authorities via a mobile app.

- **Certifications:**

- Huawei Network Assistant – Certificate of Attendance (30 hours, King Faisal University)
- Certified Ethical Hacker – Certificate of Attendance (30 hours, King Faisal University)
- Certified Wireless Analyst (TCO)
- Coursera Certifications:

“Windows Server Management and Security” (University of Colorado)

“Enterprise System Management and Security” (University of Colorado)

- Certificate of Participation in Student Activities (King Faisal University)
- C++ Programming Certificate (Ministry of Communications and Information Technology, 20 hours)

Attended a C++ programming course, focusing on core concepts and programming skills.

- AI Boot Camp – Certificate of Completion (8 hours, Google Developer Students Club, Multiple Saudi Universities)

Completed a hands-on AI boot camp and developed an AI model as part of the training program.