



## Mohsen Kadi

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### ● ABOUT ME

As a Ph.D. holder with over 8 years of dedicated experience in education and research, I specialize in the fields of **Network and Operating System, Performance Evaluation, Data Analysis, Knowledge Discovery, and Artificial Intelligence**. My academic and professional journey reflects a passion for advancing technological knowledge, mentoring future leaders, and fostering innovation. Through designing and delivering impactful courses, I bridge theoretical foundations with real-world applications, empowering students to excel in both academia and industry. As an educator and advisor, I thrive on cultivating critical thinking, creativity, and lifelong learning.

### ● WORK EXPERIENCE

01/08/2016 – CURRENT Damascus, Syria

**LECTURER** HIGHER INSTITUTE OF BUSINESS ADMINISTRATION HIBA

#### Teaching the following subjects:

- **Applications of Informatics in Management:** The course provides an in-depth introduction to the foundational concepts of algorithms and the principles of algorithmic thinking. Students explore how to design, analyze, and evaluate algorithms to solve computational problems efficiently. Another section related to exploring data-driven decision-making and process optimization strategies.
- **Database Principles & Advanced Databases:** Designed courses covering database management, relational and non-relational systems, and their integration with AI-driven analytics for business and Fintech solutions.
- **System Design and Analysis:** Taught methodologies for designing scalable systems with capabilities tailored to business administration and financial technologies.
- **Introduction to Programming:** Equipped students with programming fundamentals (Python, SQL, etc.) to develop AI algorithms and data analysis applications.
- **Principles of Artificial Intelligence and Data Analysis:** Covered foundational AI principles, machine learning techniques, and their implementation in business processes and Fintech innovation.
- **Introduction to Operating Systems & Advanced Operating Systems:** Linked theoretical concepts to the optimization of systems for high-performance computing in AI and data-intensive applications relevant to Fintech and business domains.

#### Research Interests

- **Artificial Intelligence in Financial Technology (Fintech):** Investigating the application of AI to enhance decision-making, fraud detection, personalized financial services, and predictive analytics in Fintech systems. Focus on leveraging machine learning and natural language processing to optimize financial operations and improve user experiences.
- **Performance Evaluation of Systems:** Examining methodologies for evaluating the efficiency, scalability, and reliability of AI-driven systems in finance and business contexts. Emphasis on benchmarking, optimization techniques, and the integration of AI to ensure high-performance outcomes in complex, data-intensive environments.
- **AI-Driven Risk Management:** Exploring AI-based models for identifying and mitigating risks in financial systems, including credit scoring, portfolio management, and cybersecurity.
- **Emerging Technologies in Fintech:** Investigating the impact of AI advancements, such as blockchain integration and automated trading systems, on the evolution of financial services.

01/05/2022 – CURRENT Damascus, Syria

**SENIOR FREELANCE FULL STACK DEVELOPER**

- Developed and maintained robust applications using Java Spring Boot, ensuring high performance and responsiveness.
- Designed and implemented RESTful APIs to facilitate communication between front-end and back-end systems.
- Collaborated with cross-functional teams to define, design, and deliver new features, contributing to a cohesive development process.
- Managed database interactions using Spring Data JPA, optimizing queries for better performance.

- Actively participated in code reviews and contributed to improving code quality and team knowledge sharing.
- Collaborated with cross-functional teams to integrate front-end technologies (JavaScript, React) with .NET Core back-end services.
- Developed and maintained robust web applications using .NET Core .
- Conducted code reviews and mentored junior developers on best practices in .NET Core development.
- Worked closely with cross-functional teams to establish CI/CD best practices and ensure seamless integration of code changes.
- Conducted training sessions on CI/CD tools and practices to improve team productivity and code quality.
- Proficient in designing, implementing, and maintaining CI/CD pipelines using tools such as GitLab CI.
- Experience in automating build, test, and deployment processes to enhance software delivery speed and reliability.
- Familiarity with containerization technologies (Docker, Kubernetes) for consistent application deployment across various environments.
- Implemented automated testing frameworks to ensure code quality and reduce deployment risks.
- Extensive experience with Git for version control, including branching strategies, pull requests, and code reviews.
- Proficient in implementing, deploying, and managing OAuth 2.0 protocols for secure authorization and authentication across web applications and APIs.
- Worked extensively with Microsoft Identity Server, configuring it for single sign-on (SSO) and federated identity management in enterprise environments.
- Customized Identity Server to support various client applications, including web apps, and third-party services, ensuring seamless user authentication and authorization.
- Provided training and support to team members on OAuth 2.0 principles and best practices, fostering a culture of security awareness.

01/01/2019 – 01/05/2022 Damascus, Syria

## **DATA CENTER ADMINISTRATOR MAHROUKAT**

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### **1. Infrastructure Management:**

- Overseeing the physical hardware, including servers, storage devices, and networking equipment.
- Managing the installation, configuration, and maintenance of physical infrastructure.

### **2. Server Management:**

- Installing, configuring, and maintaining operating systems and applications on servers.
- Monitoring server performance and uptime, and troubleshooting issues as they arise.

### **3. Network Configuration:**

- Managing network devices such as routers, switches, and firewalls.
- Ensuring proper network connectivity and security protocols are in place.

### **4. Performance Monitoring:**

- Using monitoring tools to track system performance, availability, and capacity.
- Analyzing performance metrics and making recommendations for improvements.

### **5. Backup and Disaster Recovery:**

- Implementing and managing backup solutions to ensure data integrity and availability.
- Developing and testing disaster recovery plans to minimize downtime in case of failures.

### **6. Security Management:**

- Implementing security measures to protect data center assets from unauthorized access and cyber threats.
- Regularly updating software and firmware to protect against vulnerabilities.

### **7. Documentation:**

- Maintaining comprehensive documentation of configurations, processes, and procedures.
- Keeping logs of changes, incidents, and maintenance activities.

### **8. Capacity Planning:**

- Analyzing resource usage and forecasting future needs to ensure the data center can meet demand.
- Planning for hardware upgrades and replacements as necessary.

### **9. Collaboration:**

- Working closely with other IT teams (e.g., network, security, application development) to ensure integrated solutions.
- Assisting in troubleshooting and resolving cross-departmental issues.

### **10. User Support:**

- Providing technical support to internal users and addressing their concerns related to data center services.
- Training staff on data center operations and best practices.

### **11. Compliance and Best Practices:**

- Ensuring adherence to industry standards and regulatory requirements.
- Implementing IT best practices to enhance efficiency and reliability.

- 1. Develop automated web-based application testing appliance using Java, to enhance products quality
- 2. Participate in developing multiple modules in company's ERP (Payroll, Asset, Access, Finance, etc..) using Java as Business layer, JQuery as front-end, and Oracle as back-end
- 3. Provide technical support for ERP deployment and production's issues resolving

Developing multi desktop and web based application in .Net, for finance tracking of air traffic and parsing AFTN messages to obtain air traffic information.

● EDUCATION AND TRAINING

Address Aleppo, Syria

Address Damascus, Syria

Address Damascus, Syria

● PUBLICATIONS

2015  
[The effect of location errors on location based routing protocols in wireless sensor networks](#)

2021  
[Caching in ILNP, Identifier Locator Communication Cache \(ILCC\) Implementation using Three-Way Handshake](#)

2021  
[Performance Analysis of Identifier Locator Communication Cache Effects on ILNPv6 Stack](#)

● LANGUAGE SKILLS

Mother tongue(s): **ARABIC**  
Other language(s):

|         | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|---------|---------------|---------|-------------------|--------------------|---------|
|         | Listening     | Reading | Spoken production | Spoken interaction |         |
| ENGLISH | C1            | C1      | C1                | C1                 | C1      |
| GERMAN  | A2            | A2      | A2                | A2                 | A2      |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

Relational Databases SQL | IT Troubleshooting | Computer Troubleshooting and Repair | Operating Systems (Windows, Linux) | Networking (TCP/IP, LAN/WLAN, Wi-Fi, VPN, DHCP, port forwarding, switching, routing) |

Organizational and planning skills | Network interconnection (Cisco, Switch, Router) | Web servers IIS Server Apache and NGINX | Network technology | Web Programming: HTML, CSS, Javascript (front-end), Java (back-end) | Model-View-Controller (MVC) | Linux Kernel Development | Basic Networking (TCP, UDP, IP, ICMP, ARP Static routing) | Configuring Operating Systems | Html, Java, CSS | Good programming skills (C, Python, Java, C++)