

# FATIMA DAKALBAB

Dubai, United Arab Emirates   
+971 52 8310013   
fatima.dakalbab@gmail.com   
@fatima-dakalbab   
<http://fatima.dakalbab.com/>   
**Arabic** (Native) | **English** (Full Professional Proficiency) 

A self-motivated computer scientist with hands-on experience and advanced programming skills.  
A master student with 3+ years of experience as a research assistant.



## Education

**M.Sc. in Computer Science** 2020 – 2023

**University of Sharjah**

- 3.76 CGPA (on a 4.0 GPA scale)
- **Courses:** Topics in Database (PostGIS with PostgreSQL), Data Management & Internet, Advanced Algorithms, Parallel Computing, Machine Learning, O.O. Software Engineering,

**B.Sc. in Information Technology Multimedia** 2016 – 2020

**University of Sharjah**

- 3.92 CGPA (on a 4.0 GPA scale)
- **Courses:** Intro. to Database Management Systems, Development of Web Applications, and Web Programming



## Experience

**Research Assistant** 2017 – Present

**OpenUAE Research & Development Group / University of Sharjah**

- Conducting literature reviews, identifying research gaps, and reporting research findings
- Writing progress reports, preparing presentations, designing conference posters, and publishing research papers. Mentoring junior research assistants in their research duties
- Participating and organizing project meetings, seminars, and external conferences
- Developing, building, and testing solutions with database management (MongoDB)

*Topics: Artificial Intelligence, Machine Learning, Blockchain, Robotic Process Automation, Security, and Anomaly detection*

**Graphic Designer** 2020 – 2021

**Dubai Police**

- Designed characters that represent police officers, as well as UAE local individuals,
- Worked with a team to design branding for an academic advising initiative, Wejhati. Choosing color schemes, designing logos, characters, posters, cards, and forms
- Constructing animated videos on how to stay safe in COVID-19 situations and how to take the right precautions for cyber bullying

*Tools: Adobe Photoshop, Adobe Illustrator, and Canva*

**CASTO Tutoring Students Program** 2017 – 2018

**Career Advising and Student Training Office (CASTO) / University of Sharjah**

- Organizing teaching sessions, assisting the students in their studies, following up with their progress, and reporting to the assigned professor

*Courses: Programming 1, Interactive Multimedia, and Database Management System*



## Skills

<b>Programming Languages</b>	Python, C++, C#, JavaScript, HTML/CSS, Python, React, SQL
<b>Designing tools</b>	Adobe Photoshop, Illustrator, Audition, Premiere, Dreamweaver, XD, Canva
<b>Development Framework</b>	Visual Studio, Android studio, PyCharm, Jupyter notebook, google collab, MySQL
<b>Animation and Game Design</b>	3Ds Max, Gamesalad, Unity
<b>Professional Research Tools</b>	Microsoft Office, Mendeley, Latex
<b>Soft Skills</b>	Adaptability, reliability, written and verbal communication, independence, time management, critical thinking, problem-solving



## Key Achievements & Publications

- Machine Learning for Anomaly Detection: A Systematic Review** **2021**  
*Nassif, A. B., Talib, M. A., Nasir, Q., & Dakalbab, F. M. (2021). Machine learning for anomaly detection: A systematic review. IEEE Access, 9, 78658-78700.*
- Machine Learning for Cloud Security: A Systematic Review** **2021**  
*Nassif, A. B., Talib, M. A., Nasir, Q., Albadani, H., & Dakalbab, F. M. (2021). Machine learning for cloud security: a systematic review. IEEE Access, 9, 20717-20735.*
- Interoperability Among Heterogeneous Blockchains: A Systematic Literature Review** **2021**  
*Talib, M. A., Abbas, S., Nasir, Q., Dakalbab, F., Mokhamed, T., Hassan, K., & Senjab, K. (2021). Interoperability Among Heterogeneous Blockchains: A Systematic Literature Review. Trust Models for Next-Generation Blockchain Ecosystems, 135-166.*
- Blockchain Network for Solar PV Electric Vehicles Charging Station to Support** **2022**  
*Hassan, K., Dakalbab, F., Talib, M. A., Ghenai, C., Nasir, Q., & Bettayeb, M. (2022, February). Blockchain Networks for Solar PV Electric Vehicles Charging Station to Support and Foster Clean Energy Transition. In 2022 International Conference on Business Analytics for Technology and Security (ICBATS) (pp. 1-7). IEEE.*
- Artificial Intelligence & Crime Prediction: A Systematic Literature Review** **2022**  
*Dakalbab, F., Talib, M. A., Waraga, O. A., Nassif, A. B., Abbas, S., & Nasir, Q. (2022). Artificial intelligence & crime prediction: A systematic literature review. Social Sciences & Humanities Open, 6(1), 100342.*
- Currently in Progress:**  
 Security in Robotic Operating System: Analytical Review  
 Artificial Intelligence in Financial Trading: A Systematic Literature Review  
 Blockchain-based Internet of Drones Security: A Survey



## Affiliations

- Google Developer Group | [Since 2016](#)
- Arab Women in Computing | [Since 2016](#)
- OPENUAE Research Group | [Since 2017](#)
- ACM UAE Chapter | [Since 2018](#)