

## Academic Resume



### Omar Batarfi

#### Associate Professor, Information Technology Department

I BELIEVE THAT WITH MY PAST EXPERIENCES INCLUDING SKILLS ACCUMULATED, COUPLED WITH WHAT I HAVE LEARNT OVER YEARS SINCE I JOINED KING ABDULAZIZ UNIVERSITY IN 1989, WILL BE OF GREAT BENEFIT TO INSPIRE ME TO TAKE UP ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES AND THAT WILL TRIGGER INNOVATIONS HELP IN THE DEVELOPMENT OF THE ORGANIZATION. CURRENTLY, I AM AN ASSOCIATE PROFESSOR OF NETWORK SECURITY AT THE DEPARTMENT OF INFORMATION TECHNOLOGY AT KING ABDULAZIZ UNIVERSITY.

#### Contact Information.

Building 31, Room 125, Ext. 67500, Add. Faculty of Computing and Information Technology,  
Obatarfi@Kau.Edu.Sa.

#### Highest Degree.

2007, Ph.D. in Computer Science, Network Security, University of Newcastle upon Tyne, UK.

#### Academic and Professional Experiences.

1. **2015 - Present**  
Associate Professor, King Abdul Aziz University, Saudi Arabia, Jeddah., , .
2. **2010 - Present**  
Assistant Professor, Saudi Arabia, King Abdul Aziz University, Jeddah.
3. **2008 - 2010**  
Chairman and Assiatant Professor, Saudi Arabia, King Abdul Aziz University, Jeddah.
4. **2001 - 2002**  
Teaching Assistant, Saudi Arabia, King Abdul Aziz University, Jeddah.
5. **2000 - 2001**  
Webmaster, Saudi Arabia, King Abdul Aziz University, Jeddah.
6. **1996 - 2000**  
System Engineer, Saudi Arabia, King Abdul Aziz University, Jeddah.

#### Research Interests.

Information Security, Artificial Intelligence, Cloud Computing Security.

#### Teaching Interests.

Effective Communication Skills, Technology in Our Life, Information Security, Artificial Intelligence and its Applications.

## Certifications and Trainings.

1. Introduction to Computers/Basic Programming.
2. Lotus 1-2-3.
3. AIX/6000 BASIC SYSTEM ADMIN. IBM.
4. AIX/6000 ADV. SYSTEM ADMIN. IBM.
5. AIX/6000 TCP/IP NETWORKING. IBM.
6. INEXPENSIVE NETWORKIN FOR SMALL BUSINESS.
7. INSTALLING AND CUSTOMIZING LINUX SYSTEM.
8. SECURING YOUR E-COMMERCE WEBSITE. MIS TRAINING, COMDEX. JEDDAH.
9. TIME MANAGEMENT.
10. CREATIVE THINKING & PROBLEM SOLVING.
11. SKILLS OF STRATEGIC PLANNING.
12. STUDY GUIDES, THEIR USES AND PREPARATIONS Excellence & innovation Development Programs.
13. RESEARCH PROPOSAL DESIGNING AND GRANTS OBTAINING FROM INTERNATIONAL ORGANIZATIONS.
14. WHAT THE BEST COLLEGE TEACHERS DO.
15. PROFESSIONAL DEVELOPMENT AND STUDY PROGRAM FOR HEADS OF DEPARTMENTS..
16. STRATEGIES OF CREATIVE THINKING WITH TRIZ.
17. EFFECTIVE PERSONAL PRODUCTIVITY.
18. EFFECTIVE PERSONAL LEADERSHIP.
19. EFFECTIVE STRATEGIC LEADERSHIP.
20. EFFECTIVE MOTIVATIONAL LEADERSHIP.
21. STRATEGIC PLANNING.
22. SELF-EVALUATION AND ACADEMIC ACCREDITATION IN THE INTRODUCTION.
23. CISCO CERTIFIED NETWORK ASSOCIATE SECURITY (CCNA SECURITY)..
24. ETHICAL HACKING BOOT CAMP (CEH)..
25. TIME MANAGEMENT AND PRESSURES OF WORK..
26. ETHICS OF E-LEARNING.
27. CISCO CERTIFIED NETWORK ASSOCIATE (CCNA).
28. PROJECT MANAGEMENT FOR RESEARCH AND DEVELOPMENT - BASIC.

## Social, Scientific and Professional Affiliation.

1. -, MEMBER, IEEE.

## Funded Projects.

1. 2010, 1. PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: REUSING AND DELIVERY E-CONTENT BASED ON LEARNER DESIRES AND STYLE. GRANTED BY THE SCIENTIFIC RESEARCH DEANSHIP, KING ABDULAZIZ UNIVERSITY (GRANT NO. 430/ 14-001)., KING ABDUL AZIZ UNIVERSITY
2. 2012, 2. PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: SEMANTIC ARABIC TRANSLATION FOR NOUN PHRASES. GRANTED BY THE SCIENTIFIC RESEARCH DEANSHIP, KING ABDULAZIZ UNIVERSITY (GRANT NO. 430/ 14-007)., KING ABDULAZIZ UNIVERSITY
3. 2015, PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: SENTIMENT ANALYSIS AND SUBJECTIVITY DETECTION IN ARABIC DOCUMENTS. GRANTED BY KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (12-INF2751-03)., KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY

4. 2013, 3. PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: STUDY THE ESTABLISHMENT OF A PHD, DEPARTMENT OF COMPUTER SCIENCE AT THE FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY. GRANTED BY THE SCIENTIFIC RESEARCH DEANSHIP, KING ABDULAZIZ UNIVERSITY (GRANT NO. 430 /007 - T)., KING ABDULAZIZ UNIVERSITY,
5. 2014, 4. PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: INTERACTIVE QUERY EXECUTION DISTRIBUTED GRAPHS. GRANTED BY KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (11-INF1990-03)., KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY,
6. 2016, 6. PRINCIPAL INVESTIGATOR OF THE RESEARCH PROJECT ENTITLED: MOBILE CLOUD SERVICE FOR MOBILE USERS IN HAJJ. GRANTED BY KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (ARP-35-111)., KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY,

## Publications.

1. Omimah Alsaedi, Omar Batarfi, Mohammed Dahab, "A Review On Preserving Data Confidentiality In Blockchain-Based Iotsupply Chain Systems", *Ijcsns International Journal Of Computer Science And Network Security*, 2023.
2. Ibrahim Ba-abbad, Omar Batarfi, "Proactive Ransomware Detection Using Extremely Fast Decision Tree (Efdt) Algorithm: A Case Study", *Computers*, 2023.
3. Ibrahim Ba-abbad, Omar Batarfi, "A Short Criteria-Based Review Of High-Performance Proactive Ransomware Analysis Models", *Transactions On Engineering And Computing Sciences /*, 2023.
4. Omimah Alsaedi, Omar Batarfi, Mohammed Dahab, "Secure And Scalable Blockchain-Based Framework For Iot- Supply Chain Management Systems", *Ijcsns International Journal Of Computer Science And Network Security*, 2022.
5. Fatimah Aldauji, Omar Batarfi, Manal Bayousef, "Utilizing Cyber Threat Hunting Techniques To Find Ransomware Attacks: A Survey Of The State Of The Art", *Ieee Access*, vol: 10, pp. 61695-61706, 2022.  
DOI: [10.1109/ACCESS.2022.3181278](https://doi.org/10.1109/ACCESS.2022.3181278)
6. MOHAMED YEHIA DAHAB, OMAR A. BATARFI, MUAZZAM SIDDIQUI, REDA MOHAMED SALAMA KHALIFA, "Word Embeddings Based On Spectral Analysis: A Novel Approach", *International Journal Of Information Technology And Language Studies*. Volume 5, Number 1. 2021, 2021.
7. Omar Batarfi, Mohamed Yehia, Ahmed Ezz, "Building An Arabic Semantic Lexicon For Hajj", *International Journal Of Computer Applications*, vol: 181, pp. 9-15, 2019.  
DOI: [10.5120/ijca2019918325](https://doi.org/10.5120/ijca2019918325)
8. Saja Alqurashi, Omar Batarfi, "A Comparison Between Api Call Sequences And Opcode Sequences As Reflectors Of Malware Behavior", *2017 12th International Conference For Internet Technology And Secured Transactions (Icitst)*, pp. 105-110, 2017.  
DOI: [10.23919/ICITST.2017.8356357](https://doi.org/10.23919/ICITST.2017.8356357)
9. Fuad Bajaber, Amin Shafaat, Omar Batarfi, Radwa Elshaw, Abdulrahman Altalhi, Ahmed Barnawi, Sherif Sakr, "A Cloud-Based Platform For Democratizing And Socializing The Benchmarking Process", *International Journal Of Advanced Computer Science And Applications*, vol: 7, 2016.  
DOI: [10.14569/IJACSA.2016.070268](https://doi.org/10.14569/IJACSA.2016.070268)
10. Saja Alqurashi, Omar Batarfi, "A Comparison Of Malware Detection Techniques Based On Hidden Markov Model", *Journal Of Information Security*, vol: 07, pp. 215-223, 2016.  
DOI: [10.4236/jis.2016.73017](https://doi.org/10.4236/jis.2016.73017)
11. Omar Batarfi, Radwa Elshaw, Ayman Fayoumi, Ahmed Barnawi, Sherif Sakr, "A Distributed Query Execution Engine Of Big Attributed Graphs", *Springerplus*, vol: 5, 2016.  
DOI: [10.1186/s40064-016-2251-0](https://doi.org/10.1186/s40064-016-2251-0)
12. Fuad Bajaber, Radwa Elshaw, Omar Batarfi, Abdulrahman Altalhi, Ahmed Barnawi, Sherif Sakr, "Big Data 2.0 Processing Systems: Taxonomy And Open Challenges", *Journal Of Grid Computing*, vol: 14, pp. 379-405, 2016.  
DOI: [10.1007/s10723-016-9371-1](https://doi.org/10.1007/s10723-016-9371-1)
13. Sherif Sakr, Fuad Bajaber, Ahmed Barnawi, Abdulrahman Altalhi, Radwa Elshaw, Omar Batarfi, "Big Data Processing Systems: State-Of-The-Art And Open Challenges", *2015 International Conference On Cloud Computing (Iccc)*, pp. 1-8, 2015.  
DOI: [10.1109/CLOUDCOMP.2015.7149633](https://doi.org/10.1109/CLOUDCOMP.2015.7149633)
14. Omar Batarfi, Radwa El Shawi, Ayman G. Fayoumi, Reza Nouri, Seyed-Mehdi-Reza Beheshti, Ahmed Barnawi, Sherif Sakr, "Large Scale Graph Processing Systems: Survey And An Experimental Evaluation", *Cluster Computing*, vol: 18, pp. 1189-1213, 2015.  
DOI: [10.1007/s10586-015-0472-6](https://doi.org/10.1007/s10586-015-0472-6)

## Publications.

15. Eman Alharbi, Noha Alsulami, Omar Batarfi, "An Enhanced Dragonfly Key Exchange Protocol Against Offline Dictionary Attack", Journal Of Information Security, vol: 06, pp. 69-81, 2015.  
DOI: [10.4236/jis.2015.62008](https://doi.org/10.4236/jis.2015.62008)
16. Radwa Elshawy, Omar Batarfi, Ayman Fayoumi, Ahmed Barnawi, Sherif Sakr, "Big Graph Processing Systems: State-Of-The-Art And Open Challenges", 2015 Ieee First International Conference On Big Data Computing Service And Applications (Bigdataservice), pp. 24-33, 2015.  
DOI: [10.1109/BigDataService.2015.11](https://doi.org/10.1109/BigDataService.2015.11)
17. Omar A. Batarfi, Aisha M. Alshiky, Alaa A. Almarzuki, Nora A. Farraj, "Csrfdtool: Automated Detection And Prevention Of A Reflected Cross-Site Request Forgery", International Journal Of Information Engineering And Electronic Business, vol: 6, pp. 10-15, 2014.  
DOI: [10.5815/ijieeb.2014.05.02](https://doi.org/10.5815/ijieeb.2014.05.02)
18. Omar Batarfi, "Principal Investigator Of The Research Project Entitled: Study The Establishment Of A Phd, Department Of Computer Science At The Faculty Of Computing And Information Technology", , 2012.
19. Omar Batarfi, "Principal Investigator Of The Research Project Entitled: Semantic Arabic Translation For Noun Phrases", , 2012.
20. Omar Batarfi, "Principal Investigator Of The Research Project Entitled: Reusing And Delivery E-Content Based On Learner Desires And Style", , 2012.
21. Maresh A., Madkour M., Batarfi O., "Network Security Management Using Ontology-Based Mobile Agents", Journal Of Faculty Of Computing And Information Technology, Kau., 2012.
22. MONA GHOTAISH ALKHOZAE, OMAR ABDULLAH BATARFI, "Phishing Websites Detection Based On Phishing Characteristics In The Webpage Source Code", International Journal Of Information And Communication Technology Research. Volume 1 , Issue 6, Pages 283-291. Issn: 2223-4985. October 2011, 2011.
23. OMAR ABDULLAH BATARFI, FATHY ELBOURAEY, "Reusing And Delivery E-Content Based On Learner Desires And Style", International Journal Of Basic & Applied Sciences (Ijbas). Volume 11 Issue 3, Pages 109 & 116. Issn: 2077-1223. June 2011, 2011.
24. OMAR BATARFI, ARWA DIWALI, "A Proposed Model For Certificate Validation In Wpki", Proceedings Of Mosharaka International Conference On Communications, Computers And Applications (Mic-Cca 2011), Pp. 105 - 109. Isbn: 978-0-9836521-1-3. Istanbul, 2011.
25. HIND ALSHARIF, OMAR BATARFI, "Intrusion Detection System Based On User Behavior Using Data Mining Techniques", International Journal Of Computer Science Engineering And Technology. Volume 1 Issue 8, Pages 451 & 455. Issn: 2231-0711. September 2011, 2011.
26. OMAR A. BATARFI, AZOOF I. METRO, "Protecting Mobile Agents Against Malicious Hosts Using Dynamic Programming Homomorphic Encryption", International Journal Of Science & Emerging Technologies. Volume 1, Issue 1, Pages 1-6. Issn: 2048-8688. September 2011, 2011.
27. DALIA ATTAS, OMAR BATARFI, "Efficient Integrity Checking Technique For Securing Client Data In Cloud Computing", International Journal Of Electrical & Computer Sciences (Ijecs). Volume 11 Issue 05, Pages 43-48. Issn: 2077-1231. October 2011, 2011.
28. MASHAEL ALSOWAIEL, OMAR BATARFI, "Filtering Spam Emails Based On User Behaviors", International Journal Of Advanced Research In Computer Science. Volume 2, Issue 5, Pages 261-266. Issn: 0976-5697. September-October 2011, 2011.
29. AMJAD GAMLO, OMAR BATARFI, "Architecture For Portable And Secure Patient Smart Card", International Journal Of Computer Science Engineering And Technology (Ijcset). Volume 1, Issue 9, Pages 582-586. Issn: 2231-0711. October 2011, 2011.