

Resume

Personal

Name ***Shymaa M. Arafat***

Birth Date 25-7-1972

Birth Place *Malaysia*

Email Shymaa.arafat@gmail.com, shar.academic@gmail.com

Phone

GitHub <https://github.com/DrShymaa2022/>,
<https://github.com/Shymaa-Arafat/>

Medium <https://medium.com/@shymaa.arafat/>

ORCID iD: 0009-0009-7571-4060

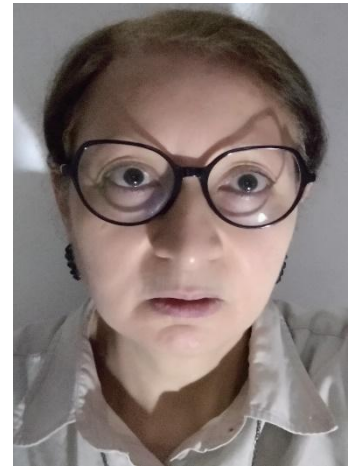
Facebook <https://m.facebook.com/100010333725264/>

YouTube. <https://youtube.com/@shymaaarafat1342>

Researchgate <https://www.researchgate.net/profile/Shymaa-Arafat>

Wallet address 0xe8a9e41b726ba3eae6837dcf74e00e2d224d5842

Address lives in Egypt, but willing to work abroad in academic or research positions



Previous Positions

- Visiting Associate Professor at Beirut Arab University, Lebanon (2/2012-4/2012), Faculty of Engineering, Computer Science & Engineering Dept.
- Part time Associate Professor in Computer Engineering Dept., Pharos University, Alexandria, Egypt (Spring 2011, Fall 2009)
- Full time Associate Professor at the Computer Science Dept., Faculty of Computer & Information Sciences, Ain Shams University, Cairo, Egypt. (started 1/10/1999 as an assistant lecturer, and resigned 7/7/2008)
- Participated as part-time lecturer/ professor in many universities & Institutes in the same Interval (99-2008) as listed in the teaching experience
- Research Assistant at Mubarak City for Scientific Research & Technological Applications, Informatics Institute (4/1995- 30/9/1999)
(worked mostly in a virtual reality application where we took a training of the *Worldup* Software, and worked on developing a walk thru application)

Education Record (Academic Grades)

Ph.D. in Computer Science (July 2001)

Alexandria University, Faculty of Engineering, Computer Science & System Engineering Dept.

http://193.227.0.100/eulc_v5/Libraries/Thesis/BrowseThesisPages.aspx?fn=ThesisPicBoddy&BibID=10011669

(copy of the thesis is available at https://github.com/DrShymaa2022/PhD_papers)

Title of Thesis *Operating on Optimal Binary Code Trees*

Supervisors

Prof. Dr. Ahmed A. Belal

Prof. Dr. Mohamed S. Selim

Ph.D. Courses

| Course Name | Teaching Professor | Grade |
|--------------------------------|--------------------|-------------|
| Parallel & Distributed Systems | Dr. Hussain Ali | V. Good |
| Security in Computer Networks | Dr. Ahmed Belal | Distinction |
| Probabilistic Algorithms | Dr. Ahmed Belal | Distinction |

M.Sc. in Computer Science (July 1997)

University of Alexandria, Faculty of Engineering, Computer science & System Engineering Dept.

http://193.227.0.100/eulc_v5/Libraries/Thesis/BrowseThesisPages.aspx?fn=PublicDrawThesis&BibID=10153838

Title of Thesis *An Efficient Parallel Sample Sorting Algorithm*

Supervisors

Prof. Dr. Ahmed A. Belal

Prof. Dr. Nagwa M. el-Makky

Master Courses

| Course Name | Teaching Professor | Grade |
|--------------------------------|---------------------------------------|-------------|
| Networking Personal Computers | Dr. Walid Aref | Distinction |
| Advanced Studies on Data Bases | Dr. Nagwa el Makky | V. Good |
| Algorithms Design & Analysis | Dr. Ahmed Belal | Pass * |
| Modern Control Theory | Dr. Ibrahim Abd el Salam | Distinction |
| Hard Ware | Dr. Salah Selim & Dr. Layla Abu Hadid | V. Good |
| Natural Language Processing | Dr. Ahmed el Nahas | Pass |

* The course is offered on a pass/Fail basis

B.Sc. in Computer science & Automatic Control (June 1994)

University of Alexandria, Faculty of Engineering, Computer science & Automatic Control Dept.

Graduation Grade Very Good (84.39%) with degree of honor

Graduation Project Simulation of Storage Subsystems

Project Grade Distinction

Online MOOCs

Mastering Web3 MOOC online course (winter 2025)

offered by University of Nicosia

Final grade: 100 (50/50 MCQ, download to view in detail)

https://github.com/DrShymaa2022/recommendation_letters_CVdocuments/blob/main/Mastering_Web3_Final%20MOOC%20Quiz_%20Attempt%20review%20_%20unic.mhtml)

Certificate

https://github.com/DrShymaa2022/recommendation_letters_CVdocuments/blob/main/Mastering_Web3_Certificate.pdf

Verifiable on the Bitcoin blockchain (<https://www.unic.ac.cy/verify/>)

ZKP MOOC online course (Winter 2023)

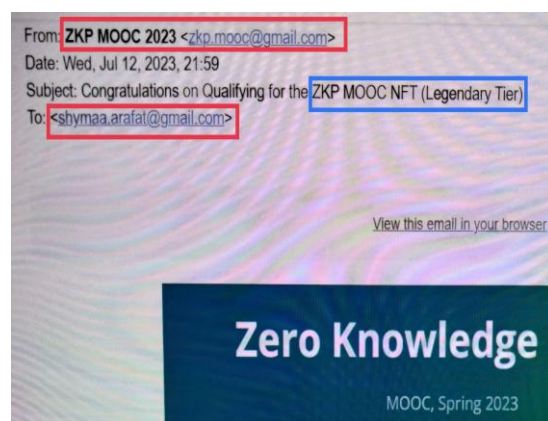
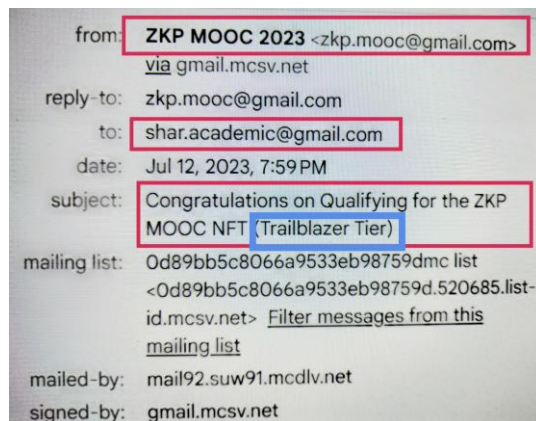
Zero Knowledge course offered by Berkeley University

<https://zkp-learning.org>

Earned Legendary Tier (according to answering lecture quizzes on time+ delivering training lab + take home exam) & Trailblazer Tier (according to articles available on GitHub and medium) NFTs.

<https://basescan.org/tx/0xb6e86833b0f796c9a641dcc50ad0a400ce0ad7c5210abfe6dc19fbb5559d92bd>

<http://basescan.org/tx/0x1f45129107b46fdea040761b6055e7a7f55326b0b40a72d0dbec536910523fdb>

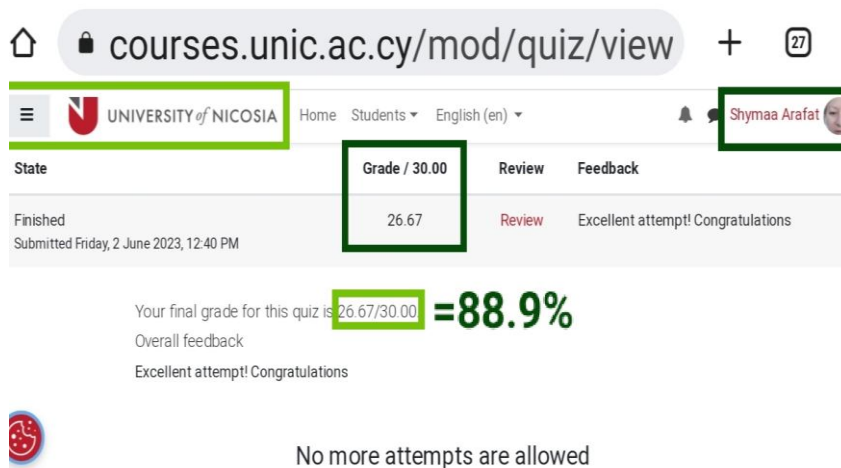


Introduction to DeFi MOOC (Spring 2023)

A compact 6 week online course offered by University of Nicosia

Final grade **88.9**, (26.67/30, No free NFT)

https://github.com/DrShymaa2022/recommendation_letters_CVdocuments/blob/main/DeF23_FinalQuiz_%20Attempt%20review%20_%20unic.mhtml (download to view)



Introduction to Digital Currencies MOOC (Spring 2023)

Offered by University of Nicosia

Final grade **85.67**, NFT issued on 23/5/2023.

<https://app.block.co/certificate/f640aada-8353-43bb-9126-f6a64b829b90/>

DeFi MOOC online course (Fall 2021)

Decentralized Finance online MOOC course offered by Berkeley University

<https://defi-learning.org/f21>

Earned the NFT *Ninja-Tier*

<https://explorer.oasis.io/mainnet/emerald/token/oasis1qrels9582m4wf25guu5057wtg74jncvqay8u6947/instance/41>

(The older site <https://gallery.metamirror.space/detail/?item=defimooc2021nft-41> has changed due to changes in the oasis blockchain holding those NFTs that were somewhat earlier pioneers for such an idea of using NFTs as course certificates; passing was according to MCQ exam+an article that is available on my GitHub+smart contract lab exercise also available on GitHub).

-For honesty, I passed without getting the smart contract right then I've got it correct afterwards even with different versions (trying the 2 steps liquidation for > 50% that was not required by the lab, only presented in the lectures as a new contribution from the professor's paper).



AMID-EAST Exams

TOEFL 627 in 10/1995

TWE 4 in 10/1995

TSE 40 in 10/1996

Test of Spoken English
EXAMINEE'S SCORE RECORD

NOTE FOR THE INSTITUTIONS: This score record has been supplied by the examinee. Score recipients are urged to verify the score record by calling toll free 800-287-2847. Scores more than two years old cannot be verified. Photographs should not be accepted.

TSE SCORE
40

EXAMINEE'S ADDRESS:
0002
ARAFAT SHYMAA M
242 ALFATH ST JANAKL*ES
ALEXANDRIA
EGYPT

REGISTRATION NUMBER: 2055725
OCT 96
F20

TOEFL EXAMINEE'S SCORE RECORD

REGISTRATION NUMBER: 2052582
NAME (Family or Surname, Given, Middle): ARAFAT-SHYMAA-M

TEST OF ENGLISH AS A FOREIGN LANGUAGE
SECTION 1: 63 SECTION 2: 61 SECTION 3: 64 TOTAL SCORE: 627

TOEFL SCALED SCORES
TEST OF WRITTEN ENGLISH: 4.0

EXAMINEE'S ADDRESS:
ARAFAT-SHYMAA-M
242 ALFATH ST JANAKLEES
ALEXANDRIA
EGYPT

Month Year TEST DATE: OCT 95
INST CODE: F201
DEPT CODE: XXXX
SPONSOR CODE: XXXX

DATE OF BIRTH: 07/25/72
NATIVE LANGUAGE: ARABIC
REASON FOR TAKING TOEFL: 1

GRE General

verbal 380, analytical 670, quantitative 780 in 10/1995

GRE Subjective in Computer Science 84 in 11/1998

BATCH NUM. - GEN: 4253-0010
SUB: 0661-0005

MOST RECENTLY REPORTED GENERAL TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 10/95 | 10 | 95 | N | 380 | 21 | 32 | 44 |

MOST RECENTLY REPORTED SUBJECT TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 11/98 | 11 | 98 | N | 29 | 780 | 84 | |

PREVIOUSLY REPORTED GENERAL TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 10/95 | 10 | 95 | N | 380 | 21 | 32 | 44 |

PREVIOUSLY REPORTED SUBJECT TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 11/98 | 11 | 98 | N | 29 | 780 | 84 | |

GI = Graduate Institution or Fellowship Sponsor
UI = Undergraduate Institution

Your GRE score record is printed below. See the reverse side for an explanation of your MOST RECENTLY REPORTED GENERAL TEST and/or SUBJECT TEST scores. The PREVIOUSLY REPORTED GENERAL TEST and SUBJECT TEST areas show all scores on record since 10/1/93. If you asked to have scores reported that are not part of this record because of their age, the mailing of these scores will be acknowledged separately.

10029 SHYMAA M ARAFAT
242 ALFATH ST JANAKLEES
ALEXANDRIA
EGYPT

8464-007

BATCH NUM. - GEN: 4253-0010
SUB: 0661-0005

MOST RECENTLY REPORTED GENERAL TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 10/95 | 10 | 95 | N | 380 | 21 | 32 | 44 |

MOST RECENTLY REPORTED SUBJECT TEST

| TEST DATE | MO. | YR. | TYPE | CODE | SCORE | % BELOW | SS1 |
|-----------|-----|-----|------|------|-------|---------|-----|
| 11/98 | 11 | 98 | N | 29 | 780 | 84 | |

PRINT DATE: 12/05
BIRTH DATE: 07/25

Activities

Winner of a research grant offered by the Center of Special Studies and Programs (CSSP), Bibliotheca Alexandrina (March 2005, involved 2 weeks visit to SMU 11/9/2005-25/9/2005)
<https://www.bibalex.org/cssp/Researchs/2004.htm>
<https://www.bibalex.org/cssp/Event/Event.aspx?ID=55>

Research Title: *Providing Secure Communications for Wireless and Wireline Applications*

Foreigner Counterpart: Prof. Dr. Hesham el Rewini,

Chairman of Computer Science & Engineering Dept., Faculty of Engineering, Southern Methodist University (SMU), USA (now in Marymount University as stated in the recommendation letter)

Teaching Experience

| Course Name | Academic year | University | Date |
|-----------------------------------|--|--|----------------------------------|
| Algorithms Design & Analysis | Post-graduate Computer sciences | Faculty of Science, Alexandria University | 3/2004-/2004 3/2003-/2003 |
| Compilers Theory | 4 th year Computer science | | 9/2003-1/2004 |
| Computer Systems & Architectures | 3 rd year Computer science | | 9/2002-1/2003 |
| Artificial Intelligence | 3 rd year | Faculty of Computer & Information Sciences Ain shams University | 2/2004□ 6/2004 |
| Operating Systems | 3 rd year | | 2/2008 |
| Compiler Theory | 4 th year Computer science | | 9/2002-1/2008 |
| Computer Security | 4 th year Computer science | | 2/2002-6/2002 2/2003-6/2003 |
| Digital Design | 2 nd year | | 9/2001-1/2002 |
| Advanced Compilers Design | Post-graduate Computer Science | | 10/2003-2/2004 10/2002-2/2003 |
| Introduction to wireless networks | 4 th year Computer science | | 1/2005 -5/2005 |
| Parallel & distributed systems | 4 th year Computer science | | 1/2005 -5/2005 |
| Structured Programming | 1 st year | | 1/2006- 5/2008 |
| Distributed Operating Systems | Post-graduate computer science | | 10/2005-2/2006 |
| Report Writing | | | 2/2006-6/2006 |
| Preparing Research Material | | | |
| Computing Algorithms | 10 th &7 th term Computer Engineering | Arab Academy for Science & Technology | 2/2003-6/2003 |
| Advanced Programming | 3 rd term Computer science | | |
| Digital Design | 3 rd term-Computer Science & Computer Engineering | | |
| Programming Applications | Summer course | | 7/2003 |
| Computer Systems | 4th year Electrical Engineering | Alexandria Institute of Technology | 9/2003-1/2004 |
| Algorithms Design & Analysis | 2 nd year Computer Engineering | | |
| Information Technology | 3 rd year Computer Engineering | | 2/2004-6/2004 |
| Formal Languages | 3 rd year Computer Engineering | | |
| Operating Systems | 3rd year Computer Engineering | Pharos University | 9/2009-2/2010 |
| Computer & Networks Security | 4 th year Computer Engineering | Pharos University | 3/2011-7/2011 |
| Data Structures | 2 nd year Computer Engineering | Beirut Arab University | 2/2012-4/2012 |

Publications

- 1- S. Arafat, A. Belal, N. el-Mekky, "A new parallel sample sorting algorithm", *In Proceedings of the IASTED conference on Computer Systems & Applications*, 30 March- 2 April 1998, Irbid, Jordan.
- 2- A.Belal, M. Abd el Azim, S. Arafat, "Limiting the search for two dimensional optimal alphabetic trees", *In Proceedings of The Fourth Joint Conference for Information Sciences JCIS98*, 23-28 October 1998, North Carolina, USA;
<http://dimacs.rutgers.edu/archive/TechnicalReports/abstracts/1998/98-43.html>, full paper:
https://github.com/DrShymaa2022/PhD_papers/blob/main/LimitingSearchFor2DoptimalAlphabeticTrees_98.pdf
- 3- A. Belal, M. Selim, S. Arafat, "Rebuilding Huffman Trees in Linear Time", *In Proceedings of The Seventh Maghrebian Conference on Computer Sciences MCSSEAI'2002*, 6-8 May 2002, Annaba, Algeria.
- 4- A. Belal, M. Selim, S. Arafat, "Merging Optimal Alphabetic Trees in Linear Time", *In Proceedings of The First International Conference on Intelligent Computing & Information Systems ICICIS 2002*, 24-16 June 2002, Cairo, Egypt.
- 5- A. Belal, M. Selim, S. Arafat, "Building Optimal Alphabetic Trees Recursively", *The 3rd WSEAS International Multiconference on Mathematics & Math 2002*, 1-5 September 2002, Wolin Island, Poland, Vol 1, Issue2 of WSEAS Transaction on Mathematics, 2002, pp.77-82.
- 6- A. Belal, M. Selim, S. Arafat, "Towards an Optimal Dynamic Alphabetic Tree", *International journal on Intelligent Computing & Information Systems IJICIS*;
<http://archive.dimacs.rutgers.edu/TechnicalReports/abstracts/1999.sav/99-22.html>, full paper:
https://github.com/DrShymaa2022/PhD_papers/blob/main/TowardsDynamicOptimalAlphabeticTree.pdf

After PhD

- 7- S. Arafat, "An Efficient simple Algorithm for Building Optimal Alphabetic Trees in Parallel", *WSEAS International Conference on Algorithms and Scientific Computing*, Vol 2, Issue3 of WSEAS Transaction on Computers, July 2003.
- 8- M.Syam, M. Hashem, S. Arafat, M. Mabrouk, "Neural Networks for Computer Virus Detection", *The 4th WSEAS International Conference on Neural Networks and Applications*, May 2003, Athens, Greece, Vol 2, Issue3 of WSEAS Transaction on Systems, July 2003.
- 9- M.Syam, Z. Fayed, S. Arafat, N.Hossam el Din, "Efficient Probabilistic Fault-tolerant Scheduling Algorithm for Real-time Tasks in Heterogeneous Multi-Processor Systems", *The 4th WSEAS International Conference on Computer Systems*, Dec 2004, New York. Vol 2, Issue3 of WSEAS Transaction on Systems, April 2004.

- 10- S. Arafat, "Encryption Using Alphabetic Trees", *The 3rd ACS/IEEE International Conference on Computer Systems and Applications, (AICCSA'05)*, Jan 2005, Cairo, Egypt; <https://ieeexplore.ieee.org/abstract/document/1387083/>
- 11- M.Syam, Z. Fayed, S. Arafat, N. .Hossam el Din, "An Efficient Online Scheduling Algorithm For Real Time Tasks In Multi Processor Systems", *2nd International conference on Intelligent computing & Information Systems ICICIS*, 5-7 March 2005, Cairo, Egypt.
- 12- M.Syam, S.Arafat, A.Ibrahim, "A CFG Based Authorization Frame Work", *2nd International conference on Intelligent computing & Information Systems ICICIS*, 5-7 March 2005, Cairo, Egypt.
- 13- M.Syam, M. Hashem, S. Arafat, M .Mabrouk, "Data Mining for Computer Virus Detection", *2nd International conference on Intelligent computing & Information Systems ICICIS*, 5-7 March 2005, Cairo, Egypt.
- 14- M. Tolba, S. Arafat, R. Kotb, "Analysis of Alphabetic Tree Cipher", *the 4th International Multi conference in Computer Science & Information Technology*, 5-7 April 2006, Amman, Jordan.
- 15- S.Arafat, Y.Dakroury, A.Wahab, "An Efficient and Secure Ad hoc Routing Protocol", *Global Engineering Science and Technology Society (GESTS) Transaction On Computer Science & Engineering*, Vol. 32 and No.1, Sept.2006; <https://dblp.org/pid/81/7056.html> (was accepted in IEEE conference)
- 16- M. Tolba, S. Arafat, R. Kotb, "Comparing Alphabetic Tree Cipher (ATC) to RC5, RC6 and Rijndael", *International journal on Intelligent Computing & Information Systems IJICIS*, 2006.

Back From Retirement
(in chronological order)

- 17- Draft talk on Algorithmic Game Theory (12/2019)
https://m.facebook.com/story.php?story_fbid=1018702451817536&id=100010333725264
- 18- Draft talk on Blockchain Market Manipulation Attacks (3/2021)
https://m.facebook.com/story.php?story_fbid=1386287771725667&id=100010333725264
- 19- S. Arafat, "Partitioning Bitcoin UTXOS Merkle Tree Into Different SubTrees To Reduce Proof Size", https://github.com/Shymaa-Arafat/lab2/blob/main/DeFi_2UTXOS2_NewOutline.pdf; (rejected by DeFi'22)
Reviewer1: border line paper, reviewers2&3: Bitcoin issue, not related to DeFi. The detailed review reports can be found on the Facebook link.
https://m.facebook.com/story.php?story_fbid=1567082160312893&id=100010333725264

- 20- S. Arafat, "*Providing Non-inclusion Proofs in Bitcoin append to right UTXOS Merkle*", https://github.com/Shymaa-Arafat/lab2/blob/main/DeFi_3fraudProofs.pdf; rejected by DeFi'22, Reviewer1&2: Bitcoin issue, not related to DeFi. The detailed review reports: https://m.facebook.com/story.php?story_fbid=1566310467056729&id=100010333725264
- 21- S. Arafat, "*The Effect of Propagation Delay Due to Geo-distribution on Blockchains*", https://github.com/Shymaa-Arafat/lab2/blob/main/DeFi_MOOC_Article.md, submitted in partial fulfillment of the DeFi MOOC course 2021
- 22- S. Arafat, "*SoK : Can NFTs Solve The Economic Problems of Countries with Ancient Heritage? Egypt as a Case Study*", https://github.com/Shymaa-Arafat/lab2/blob/main/CameraReady_1sprngr_EgyptN.pdf, <https://youtu.be/mT7qSMvV7FQ>; **accepted** by EAI BlockTEA 2022; **published** by Springer Verlag: https://link.springer.com/chapter/10.1007/978-3-031-31420-9_10.
- 23- S. Arafat, <https://medium.com/@shymaa.arafat/what-are-verkle-trees-kzg-commitments-and-could-they-be-applied-on-bitcoin-cbf4838d18ac>; an article submitted (on 6 May 2023) in partial fulfilment of the *Trailerblazer* Tier of the ZK MOOC course 2023.
- 24- S. Arafat, <https://medium.com/@shymaa.arafat/flat-shamir-transformation-and-its-security-problems-shymaa-m-a14d8f7d9192>; an article submitted (on 6 May 2023) in partial fulfilment of the *Trailerblazer* Tier of the ZK MOOC course 2023.
- 25- S. Arafat, <https://medium.com/@shymaa.arafat/metaverse-threats-liabilities-c7d8fd50a21d>; 18/6/2023.
- 26- S. Arafat, <https://medium.com/@shymaa.arafat/defi-attacks-part-1-1906a9307fe2>; 21/6/2023.
- 27- S. Arafat, <https://medium.com/@shymaa.arafat/defi-attacks-part-2-45c7e2c9c00>; 25/6/2023.
- 28- S. Arafat, <https://medium.com/@shymaa.arafat/cbdc-part1-1da3a944722c>; 7/2023
- 29- S. Arafat, <https://medium.com/@shymaa.arafat/what-happened-to-polynetwork-2021-then-2023-2e991e29655b>; 23/10/2023.
- 30- S. Arafat, https://github.com/DrShymaa2022/articles_papers/blob/main/Understanding_Cross_Chain_Interoperability_Solutions-part1.pdf; (available on medium too) 30/10/2023
- 31- S. Arafat, <https://medium.com/@shymaa.arafat/bugs-in-our-pockets-client-side-scanning-from-2021-to-2024-2442b286e501>, presentation: <https://youtu.be/Qq3FT3CferU>
- 32- S. Arafat, <https://medium.com/@shymaa.arafat/crypto-crimes-2023-2024-report-b73055ba9d8b>

- 33- S. Arafat, “On the Estonian Internet Voting System, IVXV, SoK and Suggestions”, https://www.researchgate.net/publication/383220628_On_the_Estonian_Internet_Voting_System_IVXV_SoK_and_Suggestions; extended version: <https://eprint.iacr.org/2025/506>
- 34- S. Arafat, "Blockchains in Water Management & Trading", https://www.researchgate.net/publication/382642184_A_Study_of_Blockchain_applications_in_the_Water_Sector; a preprint.
- 35- S. Arafat, "A Study of Blockchain Consensus Protocols", https://www.researchgate.net/publication/382447691_A_Study_of_Blockchain_Consensus_Protocols; <https://eprint.iacr.org/2025/637>; this version is **accepted** by Cyber Security Journal (<http://www.cybersecurity.springer.com/>) **to be printed** in 2026.
- 36- S. Arafat, “WIP: Towards Hardcopy Solid Court Verifiability- A (2 Devices) (3 Receipts) in-Booth Electronic Voting System”; https://github.com/DrShymaa2022/articles_papers/blob/main/courtverify_EVVoteID_final.pdf; earlier presentation: <https://youtu.be/0wzcHdXEKHM>
- 37- The main idea of [36] was **published as a poster** (based on abstract review only) in E-Vote-Id 2025 (<https://e-vote-id-2025.inria.fr/pages/program.html>); Poster: https://github.com/DrShymaa2022/E_Vote_ID_2025_posters/blob/main/CourtVerify2_P_Poster_9_9_25.pdf; Teaser video: <https://youtu.be/7q7c7p8HqKI>
- 38- S. Arafat, “Automated Ballot Stuffing with an Encrypted Vote: A Large-Scale Attack on the Estonian Internet Voting system, IVXV, and its Mitigation”, **published** as E-Vote-Id 2025 **poster** (based on abstract review only); Poster: https://github.com/DrShymaa2022/E_Vote_ID_2025_posters/blob/main/EncryptedcopyattackPoster_13_9_25.pdf; Teaser video: <https://youtu.be/QRmtfowimOg>
- 39- S. Arafat, “Removing Insiders’ Trust from the Estonian Internet Voting System (IVXV)”, **published** as E-Vote-Id 2025 **poster** (based on abstract review only); Poster: https://github.com/DrShymaa2022/E_Vote_ID_2025_posters/blob/main/Insiders2TrustPoster_7_9_25.pdf; Teaser video: <https://youtu.be/joQ12G6KGzc>