WAZEN SHBAIR

Senior Blockchain Architect, VNX SA.

₩ 16th August 1983

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% https://wshbair.github.io/

in @wazen shbair

EDUCATION

University of Lorraine PhD in Computer Science

◊ Nancy, France

University of Cairo

Master in Computer Science

♀ Cairo, Egypt

Islamic University of Gaza

Bachelor in Computer Engineering

Q Gaza, Palestine

EXPERIENCE

Senior Blockchain Architect

VNX www.vnx.li

May 2022 - Present

Q Luxembourg

- Develop and audit blockchain smart contracts
- Novel blockchain platforms integration and testing

Co-Founder

WAVY MEET and NIRWatch

🛗 Jan 2021 - Present

Q Luxembourg

Research Associate

University of Luxembourg, SnT

May 2017 - May 2022

Q Luxembourg

Instructor

Faculty Of Engineering, IUGAZA

Q Gaza, Palestine

TECHNICAL SKILLS



FEATURED PROJECTS

- WAVYMEET - www.wavymeet.com

A digital Cardiac Rehabilitation platform.

- NIR-WatchDog - www.nir-watchdog.lu

NIRWatchdog is a quality control solution using Near-Infrared Spectroscopy.

- PayStringSecure - www.payid.lu

The winner of the Grand Prize of the PayString Hackathon 2020 of Ripple, USA.

- Blockly2Hooks

A platform for developing visually interactive XRPL Hooks smart contracts, built with Node.js, WASM, and Google Blockly

FUNDING GRANTS

FNR, Luxembourg (12M)

Digital Cardio Rehab Platform (WavyMeet)

🛗 Jan 2022 - Dec 2022

XRPL Grant, Ripple, USA (6M)

Sratch2Hooks

🛗 Sep. 2021 - Jan 2022

SnT Acceleration Program, LU (6M)

Remote Physical Therapy (OWL)

Mach 2021 - Sep 2021

FNR, Luxembourg (24M)

Large-Scale Blockchain Testbed

math Sep 2017 - Aug 2019

Erasmus EPIC Program, FR (36M)

Full PhD Scholarship

LANGUAGES

Arabic English French

Luxembourgish



PUBLICATIONS

PhD Thesis

• Shbair, Wazen M. (May 2017). Service-Level Monitoring of HTTPS Traffic)). URL: https://tel.archives-ouvertes. fr/tel-01649735.

Journal Articles

• Yakubov, Alexander et al. (2020). "BlockPGP: A Blockchainbased Framework for PGP Key Servers". In: International Journal of Networking and Computing 10.1, pp. 1–24.

Selected Conference Proceedings

- Trestioreanu, Lucian, Flaviene de Cristo, et al. (2024). "To Squelch or not to Squelch: Enabling Improved Message Dissemination on the XRP Ledger". English. In: IEEE/IFIP Network Operations and Management Symposium, pp. 1542-1201.
- Trestioreanu, Lucian, Wazen Shbair, et al. (2023). "XRP-NDN overlay: Improving the Communication Efficiency of Consensus-Validation based Blockchains with an NDN Overlay". In: NOMS 2023-2023 IEEE/IFIP Network Operations and Management Symposium. IEEE, pp. 1–5.
- Scheidt, Flaviene et al. (2021). "Privacy-Preserving PayString Service". In: 2021 IEEE International Conference on Blockchain and Cryptocurrency (ICBC). IEEE, pp. 1-3.
- Shbair, Wazen, Eugene Gavrilov, and Radu State (2021). "HSM-based Key Management Solution for Ethereum Blockchain". In: 2021 IEEE International Conference on Blockchain and Cryptocurrency (ICBC). IEEE, pp. 1–3.
- Norvill, Robert et al. (2020). "A security and privacyfocused KYC data sharing platform". In: Proceedings of the 2nd ACM International Symposium on Blockchain and Secure Critical Infrastructure, pp. 151-160.
- Shbair, Wazen M et al. (2018). "Blockchain orchestration and experimentation framework: A case study of KYC". in: NOMS 2018-2018 IEEE/IFIP Network Operations and Management Symposium. IEEE, pp. 1-6.
- Steichen, Mathis et al. (2018). "Blockchain-based, decentralized access control for IPFS". in: 2018 IEEE International Conference on Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData). IEEE, pp. 1499–1506.
- Yakubov, A. et al. (2018). "A blockchain-based PKI management framework". In: NOMS 2018 - IEEE/IFIP Network Operations and Management Symposium, pp. 1-6.
- Shbair, W. M. et al. (2016). "A multi-level framework to identify HTTPS services". In: NOMS 2016 - 2016 IEEE/IFIP Network Operations and Management Symposium, pp. 240-248.

TPC & REVIEWER

- International Journal of Information Technology & Decision Making
- International Journal of Network Management
- **IEEE Transactions on Network and Service** Management
- IEEE Communications Magazine
- IEEE Global Blockchain Conference (IEEE GBC'24)
- Blockchain Research & Applications for Innovative Networks and Services (BRAINS'20, 21, 22, 23, 24)
- IEEE International Conference on Omni-layer Intelligent systems (COINS'20, 21, 22, 23, 24)
- IEEE International Conference on Blockchain and Cryptocurrency (ICBC'19, 20, 21, 22, 23,
- International workshop (Man2block) colocated with IFIP/IEEE NOMS 2018, Taipei, Taiwan

OPEN SOURCE

Blockly2Hook

A platform for developing visually XRPL hooks smart contract using Blockly from Google. Link:

https://github.com/wshbair/blockly2hooks

• HSM2Ethereum

A prototype of using Hardware security Module(HSM) to manage the life cycle of Ethereum blockchain kev

Link:

https://github.com/wshbair/HSM2ETH

BlockZoom

A reproducible environment for experimenting distributed ledgers technologies and smart contract applications. The tested is built to run on HPC Platform.

Link:

https://github.com/wshbair/BlockZoom

• Tokenized Mortgage Sukuk

This project is intended to tokenize mortgage sukuk via blockchain technology. The main users of the process are solo investor, notary and SPV. The SPV setup as the originator of the mortgage, it buys and sells the CRE with the funding from the Sole Investor.

https://github.com/wshbair/sukukx