

SALWA SOUAF

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EDUCATION

INSA Centre Val de Loire / Northern Arizona University *2017 - 2020*

PhD in informatics: Formal Methods Meet Security in a Cloud Brokerage Solution

Co-supervised :

August 2017 - Mai 2019 at Northern Arizona University *by* Frederic Louergue

Mai 2019 - August 2020 at INSA Centre Val de Loire *by* Pascal Berthomé

Orléans University *2016 - 2017*

Master 2 (Nomad Computing and Computer Security)

In parallel with my fifth year at INSA Centre Val de Loire

INSA Centre Val de Loire *2015 - 2017*

Engineering degree in IT Security and Technology

Double diploma contract between INSA and ENSA

ENSA Khouribga, Morocco *2011 - 2017*

Engineering degree in Computer Science

PROFESSIONAL EXPERIENCES

CentralSuplec, Rennes **Octobre 2020 - Today**
ATER

INSA Centre Val de Loire May 2019 - November 2020
Ph. D. Contract (Demi bourse Region)

Northern Arizona University May 2017 - May 2019
Graduate Research Assistant

LIFO (Fundamental Computer Science Laboratory of Orléans) February - August 2017
End of studies & Master2 Internship

- Research Team: Security of Data and Systems [SDS]
- Subject: Dynamic security in a Cloud Federation
- Supervisor: Pascal Berthomé

Renault Nissan Alliance, Paris June - August 2016
Internship

Subject: Feasibility Study for an IT Crisis Management Tool Project

SOMACA (Moroccan Society of Automobile Construction) June - August 2015
Internship

Subject: WorkFlow Management

PUBLICATIONS

Refereed International Conferences

- [1] Salwa Souaf, Pascal Berthomé, and Frédéric Louergue. A cloud brokerage solution: Formal methods meet security in cloud federations. In *2018 International Conference on High Performance Computing & Simulation, HPCS 2018, Orléans, France, July 16-20, 2018*, pages 691–699. IEEE, 2018. <https://hal.archives-ouvertes.fr/hal-02317089>.

- [2] Salwa Souaf and Frédéric Loulergue. A first step in the translation of alloy to coq. In *Formal Methods and Software Engineering - 21st International Conference on Formal Engineering Methods, ICFEM 2019, Shenzhen, China, November 5-9, 2019, Proceedings*, volume 11852 of *Lecture Notes in Computer Science*, pages 455–469. Springer, 2019. <https://hal.archives-ouvertes.fr/hal-02317118>.

WORK IN PROGRESS

Salwa Souaf, Pascal Berthomé and Frédéric Loulergue. Security in Cloud Brokerage Solutions: Survey.

Salwa Souaf, Pascal Berthomé and Frédéric Loulergue. A cloud brokerage solution for security : Updated Model.

TALKS AND SEMINARS

Conference A first step in the translation of alloy to coq, ICFEM, Shenzhen, China, 2019
Seminar A security aware Cloud Brokerage Solution, LIFO, Bourges, France, 2019

COURSES TAKEN

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|------------------------------------|---|
| Northern Arizona University | Nanotechnology for Cybersecurity Data Mining and Machine Learning Statistical Methods |
| Summer School | SILM (Security of software / hardware interfaces) 2019 in Inria Rennes |
| MOOC (Coursera) | Google Cloud Platform Fundamentals: Core Infrastructure |
| Conferences | USENIX 2018 ESORICS 2019 |

COMPUTER SKILLS

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| Langages | C/C++, JAVA, Python, PHP, PL/SQL, Ruby, Alloy, Coq, R |
| Protocols & APIs | XML, JSON, SOAP, REST |
| Operating systems | Linux (Ubuntu, Debian, Kali), Microsoft Windows, MacOS |

ACADEMIC KNOWLEDGE

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| Computer sciences | System Security, Network Security, System Administration, Network Administration, Oracle Database Administration... |
| Mathematics | Numerical Analysis, Operational Research, Heuristics Methods, Algorithmic Complexity... |

LANGUAGES

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|-------------------|--|
| Trilingual | Perfect in read, write and speak: Arabic, French & English |
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DIVERS

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| Activities | Member of ISI Club (club d'Informatique et de Sécurité Informatique de IINSA Centre Val de Loire Computer Sciences and Computer Security Club) - 2016 Active member of ENACTUS ENSA Khouribga club (entrepreneurial-action-us) - 2013 |
| Hobbies | Playing sports (Table Tennis, Crossfit) Cooking |