

SALWA SOUAF

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EDUCATION

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

PhD in computer science: 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

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

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

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

LANGUAGES

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

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