

Julien Soulé

1st year PhD student working in Multi-Agent Systems for Cyberdefense julien.soule@univ-grenoble-alpes.fr

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PROFESSIONAL EXPERIENCE

Thales (La Ruche), Rennes — Research Engineer

DEC 2021 - JUN 2022

 Study on multi-agent aspects and integration within "La Ruche" context in order to explore modeling cyber environments and anomaly detections.

Atos, Toulouse — Software Engineer

AUG 2020 - SEP 2021

• Continuation of ISIS project developments with more interactions with the CNES.

Atos, Toulouse — Software Engineer Internship

JAN 2020 - JUL 2020

- Worked on development of the ISIS project for the CNES (Centre National d'Etude Spatial).
- Product line to handle launching and monitoring of new satellites from Control and Command centers.
- Tools: Python / Bash, KVM, Grafana, Django...

SQLI, Toulouse — Mid Software Engineer Internship

MAY 2019 - JUL 2019

Airbus Helicopter projects within different aspects: security, maintenance, development...

ADDITIONAL EXPERIENCES

BattleCode (Sopra Steria), Rennes

Meet several coding challenges in teams MAR 2017

EDUCATION

Institute of Engineering Univ. Grenoble Alpes

PhD - "On Organization of a Cyberdefence Multi-Agent System (AICA)" JUL 2022 - PRESENT

• Keywords: Multi-Agent Systems, Cyberdefense, Multi-Agent Reinforcement Learning, Software Architecture...

Ecole de Technologie Supérieur, Montréal (Canada)

One study semester in Computer Engineering JAN 2019 - MAY 2019

Institut National des Sciences Appliquées (INSA), Rennes

Master's degree in Computer Engineering 2015 - 2020

PROJECTS

Multi Cyber Agent Simulator (MCAS) — Methodological tools for PhD

DEC 2022

Created a Proof-Of-Concept project aiming to simulate (and emulate) cyber-defender and cyber-attacker agents "fighting" in host nodes in a network. Main interest is to reproduce real known attacks in a realistic way and learn from the assessment of several cyberdefense multi-agent system organizations against these.

PUBLICATIONS

National Conferences

- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. RESSI 2023.
- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. RJCIA 2023.
- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. JFSMA 2023.

International Conferences

• Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. Towards a Multi-Agent Simulation of Cyber-attackers and Cyber-defenders Battles. IEEE SMC 2023.

RESPONSIBILITIES

Treasurer of the Autonomous Intelligent Cyberdefence Agent International Work Group (AICA IWG)

MAY 2023 - PRESENT

PRESENTATIONS

Talk for the CybAIR NATO Chair. École de l'air et de l'espace

MAR 2023

• Presentation of my PhD topic and discussions

TEACHING EXPERIENCES

Teaching Assistant, Valence

JAN 2023 - MAR 2023

• Basics of system administration

SKILLS

French

Native

English

Professional (910 TOEIC)