

Cebere Ioan-Tudor

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EDUCATION

Ecole Normale Supérieure Lyon

M2 Informatique Fondamentale
Class of 2021-2022
Specialization on Fundamental
Cryptography and Machine Learning.

University Politehnica of Bucharest Faculty of Computer Science

B.Eng. in Computer Engineering
Class of 2016-2020

SKILLS

TECHNOLOGIES

Good

- Python
- PyTorch
- JAX

Intermediate

- C
- Rust

Beginner

- C++

CONCEPTS

Good

- Deep Learning
- Parallel Programming

Intermediate

- Functional Programming

Beginner

- Cryptography
- Differential Privacy

INTERESTS

- Privacy Preserving Machine Learning
- Applied Cryptography
- Differential Privacy

LINKS

- GitHub
- LinkedIn
- Facebook
- Google Scholar

EXPERIENCE

INRIA | MSc INTERNSHIP

March 2022 – July 2022 | Lyon, FR

- My research is focused on analyzing empirical bounds of private learning against instantiable adversaries, with a focus on (de)centralized federated learning.
- Supervised by Aurélien Bellet and Sonia Ben Mokhtar.

SYFT@OPENMINED | CORE CONTRIBUTOR

March 2020 – Present | Remote

- Syft is a library that aims to make machine learning privacy-friendly. I contributed on remote code execution and performance improvement.
- My main contributions are related to the performance and security of the federated learning, remote execution components of the library and creating the differential privacy toolbox.

MINES PARISTECH, PSL | RESEARCH ENGINEER

July 2020 – January 2021 | Sophia Antipolis, FR

- Working on a task scheduler for a fleet of robots using graph modelling and reinforcement learning.

UIPATH | MACHINE LEARNING ENGINEER

June 2019 – September 2019 | Bucharest, RO

- Developed a recommendation system using a MultiVAE architecture for a Collaborative Filtering use case.
- Worked on a document denoising tool for the internal OCR using cycleGANs.

KEYSIGHT | DATA SCIENTIST

June 2018 – September 2018 | Bucharest, RO

- Worked on a research topic, analyzing Ixia log files for anomaly detection.

POLITEHNICA OF BUCHAREST | UNDERGRADUATE ASSISTANT

March 2018 – September 2020 | Bucharest, RO

- I had been involved in preparing tasks for the Programming Paradigms and Formal Languages and Automata Theory classes, developing homework and teaching laboratories.

ROMANIAN OPEN SOURCE EDUCATION | PRESIDENT

March 2018 – Present | Bucharest, RO

- Since March 2019 I am the president of ROSEdu, working on a set of projects for the Romanian open source community. Had an impact on over 2000 students by organising courses, talks and workshops, myself training over 200 students.

AWARDS

COGNIZANT SOFTVISION CODING CONTEST

Our project received the first place out of 50 teams and the grand prize of 25.000\$ for our work in pneumonia diagnosis using Federated Learning. Our tool provided an easy to use interface to label incoming data and to retrain in a privacy-friendly manner with new data labelled by doctors.

SUMMER PYTORCH HACKATON @ FACEBOOK

Our project received the first place out of 60 submissions for our work on Q&AId in the application track. Q&AId is a conversation agent that relies on a series of machine learning models to filter, label, and answer medical questions using PyTorch and other Facebook technologies.