

# Cebere Ioan-Tudor

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## EDUCATION

### Ecole Normale Supérieure Lyon

M2 Informatique Fondamentale  
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

Intermediate

- Differential Privacy
- Parallel Programming

Beginner

- Cryptography

## INTERESTS

- Differential Privacy
- Privacy Preserving Machine Learning
- Applied Cryptography

## 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 to remote code execution and performance improvement.
- My main contributions are related to the performance and security of our distributed learning stack and creating or improving parts of our 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.