



Maria Popa



WORK EXPERIENCE

National Institute of Research and Development in Romania, ICI Bucuresti

Country: Romania

[08/2023 – Current] **Research assistant**

- Research on LLMs
- Research on Multiple Sclerosis Lesion Segmentation

Concentrix

[07/2023 – Current] **Software engineer**

- developing intern management applications
- React, Vue.js, Node.js, Typescript
- Docker, Jenkins, Kubernetes

Transavia

Country: Romania

[11/2021 – 07/2023] **Software developer**

- Working on a intern management app, which has different features, from accountant section to internal measurements sections
- Responsible for frontend and backend and working in almost all features of the app
- Working with: Docker, React, Node.js, GraphQL, Apollo, SerialPort.js, FTP.js,

IBM Research Lab Zürich

City: Zürich | **Country:** Switzerland

[05/2021 – 10/2021] **Intern Security Department**

- Situational Awareness and Reasoning in Cyber Defence: Linux, Docker, Snort, Ansible, Nessus, Metasploit, XSS, SQLMap, Sysmon

CERN

City: Geneva | **Country:** Switzerland

[07/2020 – 12/2020] **Machine Learning Intern**

- I was part of the CMS-Micron-Openlab, I worked on the collision particle part, where I tried predicting the collision path for the particles.
- I used ML with pandas, Keras and TensorFlow, my final report <https://zenodo.org/record/4304350>

EPFL

City: Lausanne | **Country:** Switzerland

[07/2019 – 10/2019] **Full Stack & Machine Learning Intern**

- The Distributed Information Systems Laboratory at EPFL collaborates with the European Red Cross to create a web application that searches for missing people.

- I worked on both, Web Development and Deep Learning parts of the project
- Responsible for Image Classification using Active Learning, Vue for frontend, Django and Pytorch, FastAI for backend

EDUCATION AND TRAINING

[2021 – Current] **PhD in Computer Science**

Babes Bolyai University Cluj-Napoca

Country: Romania |

[2019 – 2021] **Master in Advance Computer Systems**

Babes Bolyai University, Cluj Napoca

Country: Romania |

[2019 – 2021] **Master in Didactic Mathematics**

Babes Bolyai University, Cluj Napoca

Country: Romania |

[2016 – 2019] **Bachelor in Computer Science**

Babes Bolyai University Cluj Napoca

Country: Romania |

[07/07/2022 – 15/07/2022] **SSIP - Summer School on Image Processing**

University of Szeged, Hungary

[10/2018 – 04/2019] **MHP a Porsche Company & UBB - Research Project**

MHP - Cluj Napoca

[10/2017 – 05/2018] **Biidefender Cybersecurity Course**

Bitdefender & UBB

[06/2020 – 08/2020] **EIT Health, Artificial Intelligence Online Training**

organized by GE Healthcare

CONFERENCES & COMPETITIONS

SSIP - Best Project Award

2022 - Best project award for Binary Tomography project in colaboration with Vladimir Jovanovic and Lorenzo D'Amico

Nokathon, Nokia Hackathon

2020 - 2nd place, using OCR to detect the uuid from the labels

Novartis Data Science Hackathon

2019 - won 1st place being part of the team representing the EPFL

LANGUAGES

Cambridge Certificate C1

Goethe Zertifikat C1

EDUCATION

[10/2021 – Current] **PhD - Computer Science, Image segmentation**

[10/2019 – 07/2021] **Master in Advanced Computer Systems, UBB Cluj Napoca**

[10/2019 – 07/2021] **Master in Didactic Mathematics, UBB Cluj Napoca**