



## Bálint SZABÓ

**Date of birth:** ..... | **Nationality:** Romanian, Hungarian | **Phone number:** .....  
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### ● WORK EXPERIENCE

01/10/2021 – CURRENT Cluj-Napoca, Romania  
**SECURITY RESEARCHER BITDEFENDER**

- testing cyber attack tools
- developing detection for cyber attacks

01/10/2019 – 01/07/2022 Cluj-Napoca, Romania  
**UNIVERSITY TEACHING ASSISTANT TECHNICAL UNIVERSITY OF CLUJ-NAPOCA**

Laboratory teacher for the course Operating System Design and Operating Systems

01/09/2019 – 01/10/2021 Cluj-Napoca, Romania  
**SOFTWARE DEVELOPER BITDEFENDER**

- malware analysis
- development of dynamic malware detection framework (C/C++)
- development of automation tools using Python
- experience in using virtual machines, controlling them using scripts

01/07/2017 – 01/09/2019 Cluj-Napoca, Romania  
**JUNIOR SOFTWARE DEVELOPER BITDEFENDER**

- malware analysis
- development of dynamic malware detection framework (C/C++)
- development of automation tools using Python
- experience in using virtual machines, controlling them using scripts

### ● EDUCATION AND TRAINING

01/10/2019 – CURRENT Cluj-Napoca, Romania  
**MASTERS DEGREE IN SECURITY OF INFORMATION AND COMPUTING SYSTEMS** Technical University of Cluj-Napoca

01/10/2015 – 23/07/2019 Cluj-Napoca, Romania  
**BACHELOR OF ENGINEERING** Universitatea Tehnică Cluj-Napoca, Computer Science

Graduated as "Șef de promoție" (with Highest Honors), grade 9.78

Areas of interest:

- Operating Systems
- Security, malware detection
- Capture the flag competitions

Experience gained in:

- Distributed systems
- Data structures and algorithms
- FPGA boards

Programming languages:

- C/C++
- Python

- C#
- Java
- VHDL

15/09/2011 – 01/06/2015 Cluj-Napoca, Romania

**STUDENT** Lic. Teor. Báthory István

Mathematics-Informatics class  
Pascal programming

## ● LANGUAGE SKILLS

Mother tongue(s): **HUNGARIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>GERMAN</b>	C1	C1	C1	C1	C1
<b>ROMANIAN</b>	C2	C2	C1	C1	C2
<b>ENGLISH</b>	C1	C1	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● ORGANISATIONAL SKILLS

### Organisational skills

Ability to lead a meeting.

## ● COMMUNICATION AND INTERPERSONAL SKILLS

### Communication and interpersonal skills

The ability to speak freely about a subject that I've had insight into.

## ● JOB-RELATED SKILLS

### Job-related skills

Persistence, ambition and patience in resolving problems.

## ● OTHER SKILLS

### Other skills

Projects:

- FPGA-based train ticket vendor machine. (2016)
- Home automation system for the 2016 National Instruments Student Challenge. (Won 1st place)
- Extracurricular C Course organized by the Bitdefender company.
- I've participated in a two-week-long summer academy in Germany, and wrote a paper there on solving differential equations (in German), which has been published. (2014)
- License thesis: "A Flexible Windows Workspace Saving and Restoring Utility" (2019), published at ICCP conference 2019. Link to project: <https://gitlab.com/balintzabo96/dolores-workspace-launcher>

Self-learned skills:

Python programming

Development boards: Arduino Uno, Raspberry Pi