József Sándor

Date of birth: 14/03/2000 | **Nationality:** Hungarian | **Phone number:**

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About me:
I am currently a Computer Science Engineer (MSc) student. My primary field of expertise and interest is IT security. I consider myself a hardworking and ambitious person who is not afraid of new challenges. I'm always keen to learn new technologies and I like to understand everything as thoroughly as possible. In my free time I do a lot of sports, reading and watching movies.

EDUCATION AND TRAINING

01/02/2022 – CURRENT Budapest, Hungary
COMPUTER SCIENCE ENGINEERING (MSC) Budapest University of Technology and Economics

In the MSc program I chose IT security specialization and I got involved in the work of The Laboratory of Cryptography and System Security (CrySyS Lab).

Address Műegyetem rakpart 3., Budapest, Hungary | **Website** https://www.bme.hu/ |

Field of study IT Security, Integration of Mobile Networks and Services

01/09/2018 – 01/02/2022 Budapest, Hungary
COMPUTER SCIENCE ENGINEER (BSC) Budapest University of Technology and Economics

Address Műegyetem rakpart 3., Budapest, Hungary | **Website** https://www.bme.hu/ |

Field of study Software Engineering | **Final grade** Excellent with highest honours |

Thesis In-silico simulation framework in Julia environment

WORK EXPERIENCE

01/06/2021 – 01/09/2022 Budapest, Hungary
SOFTWARE DEVELOPER KINEPICT HEALTH KFT.

I completed the 8-week mandatory internship of the BSc program at Kinepict Health Kft. in the summer of 2021. After that, at the request of the company, I worked for them for another year. During this time, I participated in the development and testing of the company's main product, which is a unique medical device software called Kinepict Medical Imaging Tool.

LANGUAGE SKILLS

Mother tongue(s): **HUNGARIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
ROMANIAN	B2	B2	B2	B2	B2

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

DIGITAL SKILLS

Java │ Python │ C++ │ Git │ SQL │ Linux │ Microsoft Office │ Latex │ C#

ADDITIONAL INFORMATION

CONFERENCES AND SEMINARS

17/11/2022 – 17/11/2022 – Budapest
Scientific Students' Association Report (TDK) In the autumn semester of 2022, I participated in the Scientific Students' Association Report (TDK) and I won first prize with my thesis in the embedded systems section. In the CrySyS laboratory, together with my consultants Levente Buttyán and Roland Nagy, we are working on technologies that increase the security of the IoT devices. This resulted in the TDK thesis entitled: Robustness Against Evasion of Similarity-based IoT Malware Detection Methods. As the title suggests, we designed attacks against existing IoT malware detection systems and then we made our systems more resilient against these attacks.

PUBLICATIONS

Increasing the Robustness of a Machine Learning-based IoT Malware Detection Method with Adversarial Training

– 2023

In Proceedings of the 2023 ACM Workshop on Wireless Security and Machine Learning (WiseML '23).

PATRIoTA: A Similarity-based IoT Malware Detection Method Robust Against Adversarial Samples – 2023

IEdge IEEE 2023 Symposium.

Similarity-based Malware Detection on Embedded IoT Devices: Performance Evaluation and Robustness Against Evasion of Detection

– 2022
The article has been submitted and is awaiting approval.

HOBBIES AND INTERESTS

Sports
- swimming
- cycling
- hiking
- workout

Culture
- Cinematography
- Literature
- Theater