

# Cristian Hristea

**Nationality:** Romanian **Date of birth:** 12/05/1991 **Phone number:** (+40) 755704736

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**Home:** Sos. Virtutii nr. 8, 060785 Bucuresti (Romania)

## WORK EXPERIENCE

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### Software Engineer

**General Inspectorate of the Romanian Police** [ 01/08/2014 – 01/12/2015 ]

City: Bucharest | Country: Romania

Software development: PHP, C#

### Software Engineer

**Advanced Technologies Institute** [ 01/12/2015 – 01/10/2022 ]

City: Bucharest | Country: Romania

Software Development: C/C++, Linux, Cryptography, Kernel, bash, C#, python

### Software Engineer

**Thales** [ 01/10/2022 – Current ]

City: Bucharest | Country: Romania

Software Development on military systems: C/C++, Redhat, Security

## EDUCATION AND TRAINING

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### Baccalaureate in Mathematics and Informatics

**Colegiul National Liceal "Zinca Golescu"** [ 01/09/2006 – 15/06/2010 ]

City: Pitesti | Country: Romania | Website: <https://zinca-golescu.ro>

### Bachelor's Degree in Computer Science

**Military Technical Academy "Ferdinand I"** [ 01/09/2010 – 01/08/2014 ]

City: Bucharest | Country: Romania | Website: <https://mta.ro/about-us> | Field(s) of study: Informatică

Computer Science

### Master's Degree in Computer Science

**Military Technical Academy "Ferdinand I"** [ 01/03/2015 – 01/08/2016 ]

City: Bucuresti | Country: Romania | Website: <https://mta.ro/about-us>

"Security of Information Technology"

Computational Cryptography

Security Protocols

Electronic Payments

### PhD

**"Simion Stoilow" Institute Of Mathematics of the Romanian Academy** [ 01/11/2019 – Current ]

Address: Bucuresti, Bucharest (Romania) | Website: <http://imar.ro> | Field(s) of study: Natural sciences, mathematics and statistics

Cryptography: Security and Privacy of RFID Protocols



## PUBLICATIONS

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[2019]

**A PUF-based destructive private mutual authentication RFID protocol** Hristea, Cristian, and Ferucio Laurențiu Țiplea. "A PUF-based destructive private mutual authentication RFID protocol." *Innovative Security Solutions for Information Technology and Communications: 11th International Conference, SecITC 2018, Bucharest, Romania, November 8–9, 2018, Revised Selected Papers 11*. Springer International Publishing, 2019.

[2019]

**Privacy of stateful RFID systems with constant tag identifiers** Hristea, Cristian, and Ferucio Laurențiu Țiplea. "Privacy of stateful RFID systems with constant tag identifiers." *IEEE Transactions on Information Forensics and Security* 15 (2019): 1920-1934.

[2020]

**PUF protected variables: A solution to RFID security and privacy under corruption with temporary state disclosure** Țiplea, Ferucio Laurențiu, and Cristian Hristea. "PUF protected variables: A solution to RFID security and privacy under corruption with temporary state disclosure." *IEEE Transactions on Information Forensics and Security* 16 (2020): 999-1013.

[2020]

**Security and privacy of PUF-based RFID systems** Țiplea, Ferucio Laurențiu, Cristian Andriesei, and Cristian Hristea. "Security and privacy of PUF-based RFID systems." *Cryptography-Recent Advances and Future Developments*. IntechOpen, 2020.

[2020]

**Destructive privacy and mutual authentication in Vaudenay's RFID model** Hristea, Cristian, and Ferucio Laurențiu Țiplea. "Destructive privacy and mutual authentication in Vaudenay's RFID model." *International Workshop Soft Computing Applications*. Cham: Springer International Publishing, 2020.

[2021]

**Reliable RFID Offline Privacy** Hristea, Cristian. "Reliable RFID Offline Privacy." *Innovative Security Solutions for Information Technology and Communications: 13th International Conference, SecITC 2020, Bucharest, Romania, November 19–20, 2020, Revised Selected Papers 13*. Springer International Publishing, 2021.

[2021]

**Practically Efficient RFID Scheme with Constant-time Identification.** Țiplea, Ferucio Laurențiu, and Cristian Hristea. "Practically Efficient RFID Scheme with Constant-time Identification." *SECRYPT*. 2021.

[2022]

**Privacy and reader-first authentication in Vaudenay's RFID model with temporary state disclosure** Țiplea, Ferucio Laurențiu, Cristian Hristea, and Rodica Bulai. "Privacy and reader-first authentication in Vaudenay's RFID model with temporary state disclosure." *Computer Science Journal of Moldova* 90.3 (2022): 335-359.

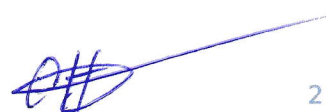
[2023]

**Privacy and mutual authentication under temporary state disclosure in RFID Systems** Țiplea, Ferucio Laurențiu, Cristian Hristea, and Rodica Bulai. "Privacy and mutual authentication under temporary state disclosure in RFID Systems." *Electronics, Communications and Computing*. 2023.

## LANGUAGE SKILLS

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**Mother tongue(s):** Romanian



**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**Italian**

**LISTENING A1 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

**French**

**LISTENING B1 READING B1 WRITING B1**

**SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1**

**German**

**LISTENING A1 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

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

**DIGITAL SKILLS**

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Microsoft Office / Microsoft Word / Microsoft Powerpoint / Microsoft Excel

