



Octavian Grigorescu

Nationality: Romanian **Date of birth:**

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Google Scholar: <https://scholar.google.com/citations?user=0tx7ZroAAAAJ>

Home: Bucharest (Romania)

WORK EXPERIENCE

Co-Founder, Product Development Lead, Back-end Developer

CODA Intelligence [2016 – Current]

City: Bucharest

Country: Romania

- Research and development of a vulnerability assessment and management platform
- Organization and coordination of the development team
- Architecture design and platform implementation using technologies such as Python, Django, Celery, RabbitMQ, MySQL, and Docker
- Introducing IT security concepts within the platform
- Test modules creation
- Experience in using code versioning systems (Git)
- Experience in organizing tasks using Jira

Teaching Assistant

Faculty of Automatic Control and Computers, POLITEHNICA University of Bucharest [01/10/2018 – Current]

City: Bucuresti

Country: Romania

- Teaching Assistant for the following courses: Local Networks, Network Design, Operating Systems
- Coordinator of the assistants' team in the Local Networks subject
- Coordinator of bachelor and master thesis projects

Security Summer School Instructor

Faculty of Automatic Control and Computers, POLITEHNICA University of Bucharest [01/06/2017 – 31/08/2017]

City: Bucharest

Country: Romania

- Initiating students in methods of exploiting vulnerabilities and protecting applications

Summer Programming School Instructor

CCNA Academy [01/06/2017 – 31/08/2017]

City: Bucharest

Country: Romania

- Initiating students in Python programming language, as well as usage of vulnerability scanning tools

Front-end Developer

Netrom Software [01/08/2014 – 01/09/2014]

City: Craiova

Country: Romania

- Implementing a video player for the Samsung Smart TV platform using technologies such as Javascript, HTML, CSS

EDUCATION AND TRAINING

Ph.D. Student in Cybersecurity

Faculty of Automatic Control and Computers, POLITEHNICA University of Bucharest [2018 – Current]

City: Bucharest

Country: Romania

Website: <https://upb.ro/>

Master's Degree in Complex Information Network Security

Faculty of Automatic Control and Computers, POLITEHNICA University of Bucharest [2016 – 2018]

City: Bucharest

Country: Romania

Website: <https://sric.cs.pub.ro/>

Software Engineer Diploma

Faculty of Automatic Control and Computers, POLITEHNICA University of Bucharest [2012 – 2016]

City: Bucharest

Country: Romania

Website: <https://upb.ro/>

Baccalaureate Diploma

National College "Carol I" [2008 – 2012]

City: Craiova

Website: <https://www.cnc.ro/>

LANGUAGE SKILLS

Mother tongue(s): **Romanian**

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

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

PUBLICATIONS

Journals

O. Grigorescu, A. Nica, M. Dascalu, R. Rughinis. CVE2ATT&CK: BERT-Based Mapping of CVEs to MITRE ATT&CK Techniques. Algorithms. 2022; 15(9):314. <https://doi.org/10.3390/a15090314>

O. Grigorescu, L. Botezatu, A. Mutu, D. Turcanu. Contextual Remediations Prioritization System Designed to Implement Theoretical Principles of CVSS v4

I. Branescu, **O. Grigorescu**, M. Dascalu. Mapping Common Vulnerabilities and Exposures to MITRE ATT&CK Tactics. *Advances in Cybersecurity and Reliability*. 2024

C. Sandescu, A. Dinisor, C-V. Vlădescu, **O. Grigorescu**, D. Corlătescu, M. Dascălu, R. Rughiniş. Extracting Exploits and Attack Vectors from Cybersecurity News using NLP, *Scientific Bulletin UPB* 2022

Conferences

O. Grigorescu, A. Minea, T. Dumitru and R. Rughiniş, "Probability and Attack Graph models in Contextual Risk Scoring System," 2022 21st RoEduNet Conference: Networking in Education and Research (RoEduNet), 2022, pp. 1-9, doi: 10.1109/RoEduNet

C. Vladescu, M. -A. Dinisor, **O. Grigorescu**, D. Corlatescu, C. Sandescu and M. Dascalu, "What are the Latest Cybersecurity Trends? A Case Study Grounded in Language Models," 2021 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2021, pp. 140-146, doi: 10.1109/SYNASC54541.2021.00033.

I. Babalau, D. Corlatescu, **O. Grigorescu**, C. Sandescu and M. Dascalu, "Severity Prediction of Software Vulnerabilities based on their Text Description," 2021 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2021, pp. 171-177, doi: 10.1109/SYNASC54541.2021.00037.

D. Iorga, D. Corlătescu, **O. Grigorescu**, C. Săndescu, M. Dascălu, R. Rughiniş "Yggdrasil - A CSCL System for the Early Detection of Cybernetic Vulnerabilities", 2021 23rd International Conference on Control Systems and Computer Science (CSCS23) Romania, 2021

O. Grigorescu, C. Săndescu, A. Caba "Web Application HoneyPot Published in the Wild", 2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet), Romania, 2020

R. Radu, C. Săndescu, **O. Grigorescu**, R. Rughiniş "Analyzing Risk Evaluation Frameworks and Risk Assessment Methods", 2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet), Romania, 2020

D. Iorga, D. Corlătescu, **O. Grigorescu**, C. Săndescu, M. Dascălu, R. Rughiniş "Early Detection of Vulnerabilities from News Websites using Machine Learning Models", 2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet), Romania, 2020

R. E. Radu, **O. Grigorescu** and R. V. Rughiniş, "Security News Aggregator," 2019 18th RoEduNet Conference: Networking in Education and Research (RoEduNet), Galati, Romania, 2019, pp. 1-8, doi: 10.1109/ROEDUNET.2019.8909609.

C. Săndescu, **O. Grigorescu**, R. Rughiniş, R. Deaconescu and M. Calin, "Why IoT security is failing. The Need of a Test Driven Security Approach," 2018 17th RoEduNet Conference: Networking in Education and Research (RoEduNet), Cluj-Napoca, 2018, pp. 1-6, doi: 10.1109/ROEDUNET.2018.8514135.

C. Sandescu, R Rughinis, **O Grigorescu**. (2017). HUNT: Using Honeytokens To Understand and Influence The Execution Of An Attack. In Proc. eLSe 2017 – The International Scientific Conference eLearning and Software for Education, Vol. 1, p. 511, Bucharest, "Carol I" National Defence University

O. Grigorescu, C. Săndescu, R. Rughiniş, "CODA footprint continuous security management platform", 2016 15th RoEduNet Conference: Networking in Education and Research, Bucharest, 2016, pp. 1-5, doi: 10.1109/RoEduNet.2016

COMMUNICATION SKILLS

Communication skills

- Experience in communication, gained through various activities involving socializing and volunteering both within the Politehnica University of Bucharest and outside of it.

MANAGEMENT AND LEADERSHIP SKILLS

Management and Leadership Skills

- Experience in organizing and coordinating teams, acquired during work in a startup environment
- Experience in organizing various university activities, as well as coordinating the assistants' team

DIGITAL SKILLS

Backend

Python / Django / OOP / Servicii Web / Celery / Bash Scripting / Sisteme de Operare / Rețelistică / Docker

Databases

SQL / Elasticsearch / MongoDB / Django ORM

Others

Git / JIRA software / Confluence / Sentry Error Tracker

CERTIFICATIONS

Linux Certification - LPIC 101

[06/2014]

LPIC - Linux Professional Institute Course

Diploma in Networking within the CCNA Academy

[2014]

Cisco Networking Academy UPB