



CONTACT



alinsimionciprian@gmail.com



[Personal Website](#)



[LinkedIn Profile](#)



[Google Scholar](#)



[GitHub](#)

TECHNICAL SKILLS

- Python
- Golang
- SQL
- VMWare
- MongoDB
- Git
- Networking
- Unix
- Data Science
- Flutter
- GraphQL
- Docker
- Kubernetes

SOFT SKILLS

Leadership
Analytical mindset
Adaptive
Planning
Able communicator
Collaborative
Problem Solver

PUBLICATIONS

- Crowdfunding platforms at the border between security and fraud(2018)
- An adversarial machine learning approach to evaluate the robustness of a security solution (2019)
- Using GANs to Improve the Accuracy of Machine Learning Models for Malware Detection (2022)
- Improving detection of malicious samples by using state-of-the-art adversarial machine learning algorithms (2022)
- Reducing Adversarial Vulnerability Using GANs (2022)
- Feature mining and classifier selection for API calls-based malware detection (2023)
- Benchmarking Out of the Box Open-Source LLMs for Malware Detection Based on API Calls Sequences (2024)

ALIN CIPRIAN SIMION

WORK EXPERIENCE

R&D Team - Product Validation Project - Team Lead

Bitdefender | August 2022 - Present

- Conducted interviews for new hires
- Quarterly and annually evaluated direct reports
- Orchestrated technical talks for quarter roadmaps
- Designed and implemented new features
- Constantly evaluated new technologies that fit project needs

R&D Team - Product Validation Project - Technical Lead

Bitdefender | Sept 2019 - August 2022

- Conducted day-to-day project coordination, planning, and implementation for a team of 3 members
- Inter team collaboration for new features, feature modification or bug reporting
- Migrated Project from monolith to microservice-like architecture

R&D Team - Product Validation Project - Software Engineer

Bitdefender | Jan 2018 - Sept 2019

- Designed, configured and developed a system for validating the anti-malware module integrated in products
- Systems's verdict impacts global update of products
- Participated in On-Call rotation
- Python, VMWare, MongoDB, Routing, NAT, DHCP, DNS, Unix

R&D Team - Botnet Monitor Project - Software Engineer

Bitdefender | May 2016 - Jan 2018

- Designed, configured and developed a system for monitoring botnet malware activity in a Sandbox environment
- Python, VMWare, MongoDB, Routing, NAT, DHCP, Unix, tshark

Business Product Team - QA Analyst

Bitdefender | Aug 2014 - May 2016

- Test owner of relay and update modules of the product
- Manually tested bug fixing and new feature development
- Written test cases as well as automatic tests

Teaching Assistant

University "Al. I. Cuza" Iasi | Aug 2014 - Present

- Teaching classes as Genetic Algorithms, Android Development, Malicious Systems, Linux System, Data Mining, Flutter

EDUCATION

University "Al. I. Cuza" Iasi

PhD, Machine Learning | Oct 2017 - Oct 2024

- Researching Adversarial Machine Learning in the context of Malware
- Thesis title: "Generative Adversarila Networks in the context of Cyber Security"