



ALIN SIMION

WORK EXPERIENCE

R&D Team - Product Validation Project - Team Lead

- Conducted interviews for new hires
- Quarterly and annually evaluating direct reports
- Orchestrated technical talks for quarter roadmaps
- Designing and implementing new features
- Constantly evaluating new technologies that fit our project's needs

R&D Team - Product Validation Project - Technical Lead

Bitdefender | Sept 2019 - August 2022

- Conduct 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

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
- 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 - Present

- Researching Adversarial Machine Learning in the context of Malware
- Master's degree in Software Systems Engineering | Oct 2014 - Jun 2017
- Studied Distributed Systems, Project Management, Programming Engineering, Big Data Analysis, Genetic Algorithms
 - Thesis involved a project about monitoring botnets in a contained environment

CONTACT

 alinsimionciprian@gmail.com

 [LinkedIn Profile](#)

 [Google Scholar](#)

 [GitHub](#)

TECHNICAL SKILLS

- Python
- VMWare virtualization
- MongoDB
- Git
- Networking
- Unix Systems
- Data Science
- Flutter
- GraphQL

SOFT SKILLS

Leadership
Analytical mindset
Adaptive
Planning
Able communicator
Collaborative

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)