Octavian Guzu

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Education

October 2019 - Present
Master's degree in Advanced Cyber Security, *Politehnica University of Bucharest*.
Expected graduation date: July 2021

October 2015 - July 2019
Bachelor's degree in Computer Engineering, *Politehnica University of Bucharest*.
Thesis title: iExtractor-ng - Redesigning the Reversing Framework of iOS Firmware Files
Average GPA: 9.84/10

Experience

July 2020 - Present
Security Engineer (Pentester), *eMAG*, Bucharest.
- Enforcing the security of the eMAG's public domains and internal apps by performing weekly penetration tests. Found 4 major vulnerabilities that impacted PII data.
- Developed a fake order detection system that automatically traces down malicious orders. More than 1000 orders were classified this way without the previous manual work.
- Assessing the security of eMAG's Android app. Because of this, the API endpoints are 20% more secure.
- Working with automated scanners such as: RIPS, Nessus, Acunetix, Qualys.

March 2019 - July 2020
Security Engineer, *Bitdefender*, Bucharest.
- Responsible for enforcing the security of internal and external assets by conducting periodical pentesting operations. I was able to find 2 critical internal vulnerabilities that had an impact on all employees.
- I managed the vulnerabilities reported via the Bitdefender bug-bounty program. Because of my work, the average validation time was lowered to 3 days from 4 days.
- I monitored the network traffic within the company by setting up alerts in Splunk on the logs provided by Palo Alto and other internal tools. Because of this, 1 C&C traffic was spotted and the communicating laptop proved to be infected with malware.

June 2017 - March 2019
Software Engineer, *Bitdefender*, Bucharest.
- I wrote a scalable SMTP server from scratch, using NodeJS, and then deployed the server in a cloud infrastructure for processing the main spam flow. The maximum supported spam flow was increased by 30%.
- Worked on improving the engines' scanning speed for large e-mails by changing the way signatures are done for this type of data. The speed increase was up to 50% for very large e-mails.
- Developed an offensive speech detector using word2vec and LSTM networks to alert parents in case their children would get involved in dangerous conversations.

October 2018 - Present
Graduate Teaching Assistant, *University Politehnica of Bucharest*.
- Teaching Introduction to operating systems for first year students.

Certifications, Capture the Flag events, Hackathons

2019 - Present
Certifications & Others.
- **OSCP** - Offensive Security Certified Professional - Acclaim Link
- **Synack Red Team (SRT)** active member

2017-2019
Capture the Flag.
- European Cyber Security Challenge, 2018 (Captain of the Romanian team), 2019 (qualified for the final national team selection)
- CDDC Finals, Singapore, 2018 (15th place)
- OWASP AppSec Conference CTF Finals, Bucharest, 2017 (2nd place)

2017-2018
Hackathons.
- Code 4 Diversity 2018, Bucharest: 1st place with an web app that allows robotics enthusiasts to collaborate by saving the time required for networking.
- HackItAll 2017, Bucharest: 1st place for a directions app based on weather conditions and air quality indexes intended to help people choose the healthiest route.