

Bogdan Lica

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Summary

Curious student, with an interest in securing applications & making them portable. Learning about mainframes, NoSQL databases and AWS. Playing with Python, Docker, NodeJS, Linux and working towards my OSCP.

Experience



MWR InfoSecurity, an F-Secure company London

Security Consultant Intern

Jul-Sep 2018

- Assessing the security of a website and creating a report on how to mitigate the found vulnerabilities.
- Creating documentation on how to use z/OS and exploring different ways on how to ensure security of a mainframe.
- Understanding the structure of an IOS application for a client of the company, by performing static and dynamic analysis.

Education



University of Southampton

BSc in Computer Science

2017-2020

- Part of the Cyber Security Society and Algorithmics Society

1st Year

First class degree

- Algorithmics
- Computer Systems I
- Programming I,II
- Data Management

2nd Year

- Intelligent Systems
- Programming Lang Concepts
- Advanced Databases
- Distributed Systems & Networks

Training & Courses



MWR InfoSecurity

- Proactive Web Defense
- Proactive Network Defense
- Proactive Mobile Defense
- Metasploit Workshop



Linux Academy

- Docker Certified Associate
- Source Control with Git

Skills

Programming Python, Java, SQL, Bash

Libraries NodeJS

Tools Git, Docker, LaTeX, Markdown

Soft skills Teamwork, Communication, Commitment, Flexibility

Projects

Around the Globe: Alexa Skill written in NodeJS running on AWS Lambda

- practised using multiple APIs to gather data
- used regular expressions to remove unnecessary extracted data
- implemented appropriate handlers for the interaction with the user

SotonBus Bot: Facebook Bot written in NodeJS (winner of Campus Hack, hackathon organized by J.P. Morgan)

- worked effectively as part of a team, by designating specific features to each member of the team
- improved knowledge of Git, by solving various merge conflicts
- learnt the basics of JavaScript and NodeJS while working on this project, with no prior experience of using them

Mail Sender: CLI Python app deployed on Docker

- learnt how to use docker-compose to share resources between 2 containers
- got introduced to NoSQL databases by writing specific information about the current session in a MongoDB database, running on Docker
- integrated VirusTotal API by checking if the attachments were malicious

Security tools: TCP reverse shell and password finder by SQL Injection in Python

- exploited SQL Injection to get the passwords from a MySQL database, without using a wordlist
- learnt about sockets by implementing a simple reverse TCP shell

Security Assurance on a Mainframe: a research project at MWR InfoSecurity (Professional)

- investigated and documented possible attack vectors on z/OS such as JCL over FTP, exposed services once a TSO session has been established etc
- created getting started tutorials for JCL,TSO,RACF and z/OS

Interests

- Cars
- Teaching about technology
- Photography
- Fitness
- Playing the Piano
- Snooker