



Sotiris Evangelou

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PROFESSIONAL EXPERIENCE

FRIKTORIA - Data Center Services

Volos, Greece

System Administrator

1 Oct 2019 - Present

- Configured multiple Debian and Windows server dedicated machines and VPSes for clients.
- Automated the secondary BIND9 servers' syncing with the primary servers using custom Bash scripts.

University of Thessaly

Volos, Greece

Teaching Assistant

1 Sept 2019 - Present

- Teaching Assistant for the course Problem Solving Environments for Data Science Applications, supervised by Emeritus Professor E.N.Houstis.

FRIKTORIA - Data Center Services

Volos, Greece

Intern

1 Jul - 31 Aug 2019

- Installed and configured a Proxmox VE and various VMs running monitoring and administration tools.
- Configured and used Nagios, MRTG, Munin and Zabbix for monitoring, Shinobi CCTV for CCTV surveillance.
- Configured a vsftpd server and developed expect scripts to backup logs and configurations from switches and routers in the ftp server.

EDUCATION

University of Thessaly, Department of Electrical and Computer Engineering

Volos, Greece

Candidate for Master of Engineering in ECE (GPA: 7.87/10.0)

Sept 2015 - Present

PROJECTS

tASE: Automated Security Assessments

Nov 2018 - Present

- Project supervised by Prof. Antonopoulos Christos and collaborated with GRNET-CERT.
- Creation of a Python/Bash script framework that integrates security tools (Nmap, Bandit, OWASP ZAP) to automate security analysis through the use of gherkin user scenarios.
- Developed in object-oriented model to provide End User Development capability. (*Private Repository*)

NIDS: Network Intrusion Detection System with Machine Learning

Mar 2019 - May 2019

- Experimented with RandomForest, SVM, and Multilayer Perceptron to create a Network IDS that analyses packets to decide whether they are normal or abnormal network traffic and decide on the attack type on the network in case it happens.
- Written in Python using Sklearn library and Keras API. (*Public Repository*)

In-game Database Application on Redis

Mar 2019 - Apr 2019

- Created a simple database application on Redis that handles a game account creation, searching for other players, logging in and several in-game actions for the No-SQL databases course.
- Written in NodeJS using node-redis client, UI in HTML. (*Public Repository*)

Citation Forecasting Neural Network

Dec 2018 - Feb 2019

- Deep LSTM neural network that predicts the number of citations of scientific papers in the following year, and five years after. Dataset taken from AMiner.com.
- Written in Python using Sklearn library and Keras API. (*Public Repository*)

Smaller Projects

- VLAN implementation in Ryu SDN Framework. Tested in Mininet testbed. (*Private Repository*)
- Mystery game development in Unity with C#.

CHALLENGE PARTICIPATION

Panoptis 2019

Military Cybersecurity Exercise

University of Thessaly, Volos, Greece

10 Jun 2019 - 15 Jun 2019

- Was one of the two coordinators of the University of Thessaly team in Volos, as part of the GFOSS team.
- Team solved the Data Exfiltration episode, and the Social Network Communication Analysis episode in their total content.
- Volos UTH team was the only team that solved the Social Network Communication Analysis Episode in 100%, and received great comments for the professionalism of the report that was composed, by the Military Officers and the episode creator.

Deloitte Hacking Challenge 2019

Capture The Flag Cybersecurity contest

Deloitte Greece, Marousi, Athens

30 Mar 2019 - 12 Apr 2019

- Participated in the Preliminary round, finishing 11th out of 105 contestants, and improved to the Final round, after solving various problems including web exploitation, reverse engineering, scripting, steganography etc.
- Participated in the Final round, finishing 20th out of 40 contestants.

Advanced Network Topics Spectrum Challenge 2018-19

Spectrum Challenge

University of Thessaly, Volos, Greece

4 Dec 2018 - 20 Feb 2019

- Software Defined Radio (SDR) programming challenge, on USRP devices, using GNU Radio framework and experimenting on NITOS RF isolated wireless testbed.
- Challenge based on the DARPA spectrum collaboration challenge, with two-man teams participating.
- Finished in the 5th place, after winning against 3 teams and losing in the semifinals.

Panoptis 2018

Military Cybersecurity Exercise

TEI Of Thessaly, Larisa, Greece

22 - 25 May 2018

- Participated with the team of GFOSS, and worked on Web CTF challenge (Solved) , and CTF challenge of Hellenic National Defence General Staff (7 flags as a team, 2 raised from me and my partner).

NASA SpaceApps Challenge 2018

Hackathon

OKThess,Thessaloniki, Greece

12 - 14 Oct 2018

- Participated as a two-man team, for one day of programming, and used Python to get granules from daily NASA earthdata and decide which organisations/businesses are affected by cryosphere in a certain location.
- Personally got interviewed by a TomTom's product manager, for feedback on using the TomTom API for this project.

ADDITIONAL

Relevant Coursework.....

- Linear Algebra, Mathematical Analysis, Data Structures and Algorithms, Object Oriented Programming (Java, C++)
- Concurrent Programming (Thread programming using C library pthread, Created interpreter and scheduler)
- Artificial Intelligence, Neural Networks and Fuzzy Logic, Machine Learning
- Computer Networks, Advanced Network Topics (Software Defined Radio programming), Software Defined Networks (Ryu SDN Framework)
- Blockchain Technology (Familiarity with Ethereum smart contracts)
- Relational Databases (MySQL, PostgreSQL), No-SQL Databases (Redis)
- Computer Security (Research and Writeups on Buffer Overflow, Return Oriented Programming, Cross Site Scripting, XSS worm, TCP attacks)

Lectures

- Presented a lecture on Consensus Algorithms based on a survey paper by G.-T.Nguyen and K. Kim and personal research for the Blockchain course.
- Presented a lecture and live demo on common Ethereum contract vulnerabilities including Reentrancy, Integer Overflows/Underflows, Incorrect Constructor and Incorrect Interface bad practices and vulnerabilities.
- Presented several lectures for the Machine Learning course including Linear Regression, Ridge Regression, Support Vector Machines and Convolutional Neural Networks theory and programming.

Software Engineering.....

- Programming Languages: Python, C, Java,C++, Bash, Javascript (NodeJS)
- Other type languages: SQL, HTML, CSS
- Operating systems: Windows, Linux variants (Ubuntu, Kali linux, Debian, Open Suse)
- Good knowledge of Linux Filesystem/Configuration/Terminal.
- Ability to use various security tools (nmap,nikto,ZAP,Ghidra,Metasploit,Hydra,SQLMap etc.)

Spoken Languages.....

- Greek: Native language
- English: C2 level ECPE certificate of Michigan University.

Personal Characteristics.....

- Friendly, efficient in pair programming and teamwork tasks.
- Quick and eager learner.
- Hard working, positive, curious and ambitious personality.
- Embracing helping others, and getting help by others.
- Enjoying attendance to academic, technology and social events.