Vasilis Ieropoulos

PERSONAL DETAILS

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Projects www.5b4anu.com

ACADEMIC QUALIFICATIONS

Msc CyberSecurity (Distinction) 2020-2021
Cardiff University,UK

Supervisors: Eirini Anthi

Dissertation Title: Investigating Radio Frequency vulnerabilities in the Internet of Things

Using low cost hardware like the rtl-sdr and the hackrf, radio frequency security vulnerabilities were found in the devices tested. The results showed that the devices tested were susceptible to jamming attacks, and in some cases, they were rendered inoperable and required a hard reset to function correctly again. This highlights the lack of protection against both intentional and unintentional jamming. In addition, a few devices showed that they were susceptible to replay attacks which highlights the need for more hardened security measures. Finally, this paper proposes defence mechanisms that may enhance the security of the devices against these types of attacks.

BSc Hons Computer Science (2.1) 2017-2020
University of Nottingham, UK

Supervisors: Dr. Julie Greensmith

Dissertation Title: Detecting spoof emails with information fusion

Using Bayesian classification and Long-short term memory we were able to achieve a 86% and 98.92% accuracy respectively in classifying spam email using only the subject heading and email address. With a combination of custom filtering which looked for spelling mistakes, profanity, specific keywords etc we were able to increase the accuracy to almost 100% in both cases.

HnD Computing And Systems Development(Pass) 2015-2017
Computrain LTD, CY

High School(85%) 2011-2015
The Grammar School Nicosia

PROFESSIONAL EXPERIENCE

Programmer Analyst GnosisNet
06/2020-08/2020

Worked on a solo project for the Municipality of Larnaca to create a waste management system. The system works by scanning bar-codes on bin bags which are unique to each house and sending that information to a central server which could then be used to analyse the waste generated by each house. Each household would then by charged depending on how much waste they generated.A desktop server application was created in C# for managing the data and a Android application for scanning the bar-code using a bar-code scanner

Web-development/Technical Support Freelance
2017-present

Worked on the creation of multiple websites as well as building multiple desktop computers for individuals

Station Manager Cyprus Amateur Radio Society
2018-Present

Created and managing the Satellite image receiving station of Cyprus which is used for weather monitoring and propagation prediction. Created the first Radiosonde tracking station and the first one to ever be erected in the middle east for the tracking and retrieval of weather balloons. Furthermore, managing a ADS-B (plane tracking) station. This station is managed using a Raspberry pi 3 with setup to work remotely with a a private VPN tunnel

Sergeant Cyprus National Guard
2015-2017

Serving my army conscription I was ranked as a Sergeant in charge of monitoring and organising my fellow soldiers. I specialised in Anti Aircraft artillery specifically using the Mistral Missile System

TECHNOLOGIES

Languages
C,C++,C#,Java,Haskell,Python,ARM assembly

Frameworks/Libraries
scikit-learn,keras,nltk,ASP.NET,DevExpress,AndroidStudio,JavaFx

Operating Systems
Windows,Linux,Android,Arduino

AWARDS/ACHIEVEMENTS

Scout of Democracy Awarded by the President of Cyprus
2013

Pentest Cyprus 2016 Cyprus Computer Society
Placed 16/40

BCS Cyber-Security Challenge 2019 British Computer Society
Placed 10/50

Duke of Edinburgh 2012
Bronze