

FURKAN GÖKSEL

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EDUCATION

Middle East Technical University, Ankara
Department of Computer Engineering

2016 - Present
CGPA: 3.87

PROJECTS

Process Tracer

The project aims to monitoring and manipulating the system calls made by a Linux Process through a browser-based interface. With this kind of manipulating option, the project provides researchers to ease analyzing the system calls of the suspicious programs. The project is fully written in C language.

AgriLoRa: A Smart Agriculture Framework (published by Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications's next volume)

This project aims to develop a complete cost-effective Smart Agriculture Solution. In this project, I'm responsible for establishing Wireless Sensor Network using LoRa modules. More specifically, I am trying to add new Ad-Hoc routing protocols for communication between LoRa gateways. The novelty is standard LoRaWAN protocol uses star topology, but AgriLoRa uses mesh topology to eliminate Internet connection necessity.

Think Before You Fire (accepted by SafeThings 2021: IEEE Workshop on the Internet of Safe Things)

This project aims to solve ordering problems in IoT systems components, especially for Smart Home environments. It was my summer internship research project in Purdue University under the advisorship of Asst. Prof. Z. Berkay Celik.

Web Application Firewall Administration Tool (WAFADM)

This project aims to ease the usage of ModSecurity Web Application Firewall by implementing rule parsers, generators, access zones and new functionalities. This is my graduation project under the advisorship of Dr. Onur Tolga Şehitoğlu.

TECHNICAL STRENGTHS

Simulation OmNet++

Languages C, C++, Python, MySQL, PIC Assembly, x86 Assembly, Java, Lua

WORK EXPERIENCE

Picus Security, Ankara
Red Team Engineer

March 2021 - Present

- Working as a part of Red Team, specifically for endpoint attacks.

Asst. Prof. Z. Berkay Çelik, Purdue University
Undergraduate Student Researcher

July 2020 - October 2020

- I was accepted to his research group, and I had been doing a research about IoT systems and their security.

Secrove Information Security Consulting, Istanbul
Security Researcher

March 2020 - September 2020

- Working in an EDR project of the company and researching new security areas.

Secrove Information Security Consulting, Istanbul
Intern

March 2019 - September 2019

- During my internship, I performed penetration tests for mobile and web applications. Also, I developed Process Tracer here.

PRESENTATIONS / TALKS

A New Approach to Dynamic Analysis: Process Tracer
BSCon2020

30 May 2020

- I have made a presentation about system calls, manipulation of them and an analysis tool, that is written by me, Process Tracer.

PUBLICATIONS

AgriLoRa

- Pelin Angin, Mohammad Hossein Anisi, **Furkan Göksel**, Ceren Gürsoy, and Asaf Büyükgülcü. Agrilora: A digital twin framework for smartagriculture. Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), 11(4):77–96, December 2020.

AWARDS / HONORS

- GUIDED2020: 2nd Guided Research Symposium 1st place with project AgriLoRa
- ICS & IoT Cyber Security Bootcamp CTF: Blackout 1st place with team KöpükRF

REFERENCES

References can be given upon request.