FABIO PIRAS

Computer Engineer Cybersecurity specialization



SUMMARY

Computer engineer student in University of Pisa. During my academic journey I acquired a solid knowledge base in different areas of computer engineering such as: algorithms, artificial intelligence, cybersecurity, software development. I am a creative, motivated and diligent person who loves to work in a team to reach common results. I love having a positive impact on the community. I also do CTF competitions in my free time.

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SKILLS

Languages: C/C++, Java, Python, PHP, JS, Kotlin, Er-

lang, Golang

Back-end: MySQL, MongoDB, Neo4j, Redis.

Technologies: Linux, Git, Spring, Docker, Tensorflow.

Soft skills: Cybersecurity, Critical thinking, Team-

work, Project design & implementation,

Problem-solving, Adaptability.

WORK EXPERIENCES

09/2024 Curriculum Internship

Sma-RTy & University of Pisa

present Working experience in the field of cybersecurity and network security.

CURRENT PROJECT

- eBPF A study on eBPF enhanced container security: Identifying and Addressing Data Visibility Vulnerabili-

- C ties

- Docker

- Linux Kernel The project aims to study the security implications of eBPF in containerized environments. The final goal

is to allow users inside containers to use the eBPF technology without causing security issues.

EDUCATION AND OTHER LEARNING EXPERIENCES -

04/2025 Master's Degree Computer Engineering - Curriculum Cybersecurity University of Pisa

09/2022 Bachelor's Degree Computer Engineering University of Pisa

O6/2024 Cyberchallege.it trainee program

12/2024 Fencing Instructor - 1st level Accademia Nazionale di Scherma

PAST PROJECTS HIGHLIGHTS (MORE ON MY PORTFOLIO)

- Golang Federated-GoLang Learning - 07/2024 - 09/2024

glmquint/fedlang

- Erlang The project aims to integrate a federated learning platform by leveraging Erlang for the communication between the nodes and Go for the application logic. The application is built to support different types of nodes topology and to be able to handle the communication between them.

- Php SecureBookSellingWebsite - 11/2023 - 01/2024

Albran99/SecureBookWebSite

MySQL Secure Book store is a fully functional site with a focus on cybersecurity, resistant to SQL injection, cross
Burp site scripting, privilege escalation and others malicious activity. The site has then been tested by cyber-

security expert at the University of Pisa.

- Java Rotten Movies - 12/2022 - 01/2023

fp99/rottenmovies

MongoDb
RottenMovies is an online platform dedicated to film reviews, the project focus on handling large amount
Neo4j
RottenMovies is an online platform dedicated to film reviews, the project focus on handling large amount
of data and the ability to query it in a fast and efficient way.

- Spring

- C++ Epidemic Broadcast - 01/2023 - 02/2023

Albran99/EpidemicBroadcast

network of interconnected nodes, where each node has peer-to-peer connections. The objective of the simulation is to identify the optimal configuration that maximizes the spread of the "epidemic".

- C++ SecureBank - 06/2023 - 07/2023 Albran99/SecureBank - OpenSSL SecureBank is an application designed to implement the transfer of messages and data between a client and a bank server in a secure way. The protocol designed is resistant to both active attacks like replay and MITM and subquantum passive ones. The protocol uses both symmetric and asymmetric key encryption.

Albran99/BitonicSort - C++ BitonicSort - 04/2023 - 06/2023 The project analyzes how the utilization of multithreading and GPU accelerators can bring a significant - Cuda speedup in regards of a sorting algorithm, resulting in the ability to sort an array of 2Gb in less than 15 - uProf

seconds specifically on an Nvidia Tesla T4. - Nsight

LANGUAGES English - B2, Italian - native

INTERESTS & HOBBIES

I participate in CTF competitions in my free time.

Fencing

I am a fencing instructor and I have been practicing this sport for 7 years.