

FRANCESCO PANEBIANCO

InfoSec Ph.D. Student at Politecnico di Milano

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frank01001.com @Frank01001 Francesco Panebianco github.com/Frank01001

Milan, Italy



DEVELOPMENT EXPERIENCE



December 2023 - Ongoing Milano (MI)

Website: libdebug.org

- Scriptable Python debugger
- Fully featured for efficient debugging and reverse-engineering
- Increasing in popularity

Roles:

- Maintainer
- Documentation Editor
- Artist and Website maintainer

TEACHING EXPERIENCE

TechCamp 2024

Politecnico di Milano

June 2024 Milano (MI)

- Teaching Cybersecurity topics to High School students

Teaching Assistant and Laboratory Assistant

Politecnico di Milano

September 2024 - December 2024 Milano (MI)

- Informatica B - Facoltà di Ingegneria Meccanica ed Elettrica

EDUCATION

Ph.D. in Information Security

Politecnico di Milano

May 2024 - Ongoing

- Security of Machine Learning
- Large Language Models for Security

M.Sc. in Computer Science Engineering - AI Track

Politecnico di Milano

Sept 2021 - April 2024 Milano (MI)

Thesis Title: ECLIPSE - A Targeted Black-Box Evasion Attack against Image Classifiers

Grading: 110 Cum Laude

MOST PROUD OF



CTF Player

I have, and still am, participating in security competitions with Tower of Hanoi and mhackeroni



Curiosity and Insight

I've always had a curious mind and started programming when I was 11 years old



A people person

I value social interaction and collaboration with the people I work with

STRENGTHS

Hard-working

Eye for detail

Sociable

Skillful

C

C#

Python

Assembly

Software Security

Reverse Engineering

Machine Learning

Game Development - Unity

3D Modelling - Blender

Image Editing

LANGUAGES

Italian - Native



English - C2



CERTIFICATIONS

Cyberchallenge

Politecnico di Milano

Feb 2024 - May 2024

- Software Security
- Reverse Engineering
- Web Application Security
- Cryptography

B.Sc. in Computer Science Engineering

Politecnico di Milano

📅 Sept 2018 – July 2021

📍 Milano (MI)

Grading: 105/110

High School Diploma

Liceo Scientifico Leonardo

📅 Sept 2013 – July 2018

📍 Giarre (CT)

Grading: 100 Cum Laude

PROJECTS

Impact Challenge - Tech For Social Good

Google.org / Politecnico di Milano

📅 May 2024 - ongoing

The project involves developing an AI-based application to satisfy the security needs of small-to-medium businesses, that can hardly afford high-level consulting. Project artifacts are open-source.

Lead Developer on The Feline Paradox

Politecnico di Milano

📅 December 2022 - February 2023

The Feline Paradox is a puzzle-platformer videogame for Windows, developed as part of the evaluation for the Videogame Design and Programming course. The game was entirely written in C#. I developed the enemy AI logic and some of the game's core mechanics. Having been the project's lead developer, I also curated coding conventions and reviewed pull requests.

pyRAIsrc

Personal Project

📅 March 2022

This is a Python library to encode / decode the now deprecated Italian time signal. The time signal used to be broadcast in radio stations to synchronize clocks with the atomic reference in Turin and was discontinued in 2016.

H.E.V. Suit Tech Demo - Half Life Alyx Mod

Personal Project

📅 July 2020

This project is a popular mod for the VR game Half-Life Alyx. The mod introduces a working *Hazardous Environments Vehicle* suit from previous chapters of the game series. It has been downloaded and enjoyed by many players and is still available on the *Steam Workshop* for the game. It has been programmed in Lua.

Cambridge English Level 3 Certificate in ESOL International (Advanced)

Cambridge University Press & Assessment

📅 Dec 2017

📍 www.cambridgeenglish.org/

- Reading 210 / 210
- Use of English 210 / 210
- Writing 196 / 210
- Listening 202 / 210
- Speaking 207 / 210

Overall: Grade A

Performance at Grade A demonstrates an ability at Level 3 UK National Qualifications Framework and Council of Europe Level C2

PUBLICATIONS

👥 Conference Proceedings

- G. Digregorio, R. A. Bertolini, F. Panebianco, and M. Polino, "Poster: Libdebug, Build Your Own Debugger for a Better (Hello) World," in *Proceedings of the 2024 ACM SIGSAC Conference on Computer and Communications Security*, ser. CCS '24, Salt Lake City, UT, USA: Association for Computing Machinery, 2024. DOI: 10.1145/3658644.3691391.

REFEREES

Prof. Michele Carminati

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Assistant Professor (RTDb)
My advisor during my Ph.D.

Prof. Stefano Zanero

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Full Professor
Coordinator of Security research group during my Ph.D.
