

DIOGO FILIPE DA ROCHA COELHO



DEGREE IN COMPUTER SCIENCE
(3º YEAR)

co3lho22@gmail.com | 21 years old |



| [LinkedIn](#) | [GitHub](#)



I am a committed, focused, and organized individual with a creative flair. I consistently strive for excellence in all situations and possess a strong passion for learning and continuous improvement. Additionally, I am deeply enthusiastic about cybersecurity and enjoy solving complex problems through programming.

Professional Experience

Smartex – Professional Internship

August 10, 2023 - February 10, 2024

- Delivered a talk on security best practices.
- Developed a Proof of Concept (PoC) for Grafana to monitor remote devices.
- Used Golang to integrate and develop internal tools.
- Collaborated with the cybersecurity team on various initiatives, including addressing phishing attacks targeting the company, and assisting in the configuration of a firewall in the office.
- Assisted in reviewing and testing the pipeline architecture for software development.

Smartex – Summer Internship

May 9, 2023 - August 9, 2023

- Created unit tests for one of the core company services.
- Worked in the Embedded team to address a memory issue in the software, which caused frequent machine reboots.
- Contributed to cybersecurity initiatives, improving company defenses against phishing threats like spoofing, and brainstormed on various cybersecurity topics.

Academic Education

Bachelor's Degree in Computer Science at FCUP

Expected Completion: September 2024

- Cultivated strong programming and cognitive Skills.
- Developed a comprehensive understanding of computer systems and internet operations.
- Enhanced problem-solving abilities, critical thinking, and collaborative team efforts.

Smartex – Curricular Internship Project on “Development and implementing of Cloud Security Policies for Smartex.ai’s Infrastructure”

August 10, 2023 – February 10, 2024

- Completed courses on AWS Cloud services, including AWS Essentials, and AWS Practitioner.
- Collaborated closely with the DevOps team to secure Smartex’s cloud infrastructure using RDK to develop and deploy rules for AWS Config.
- Have gained proficiency in AWS Cloud services such as VPC, Security Groups, IGW, EC2, Lambda Functions, and more.
- Used OpenSCAP as a potential solution for on-premises device protection.

Programming Projects

I don't have enough space to list all my projects, so other projects can be accessed on my [GitHub page](#). To delve deeper into each of the projects mentioned below, please visit my GitHub.

RustC2Forge (Command and Control Server)

RustC2Forge is a Command and Control (C2) server implemented in Rust, designed for educational purposes. This initial project in Rust provides basic reverse shell capabilities.

Key Features:

- **Reverse Shell:** Executes server commands on the client.
- **Heartbeat:** Monitors client connection status.

Technology Used:

- **Language:** Rust
- **Environment:** Unix Systems

pdm-backend (University Project)

A backend for a movie streaming service using Jersey in java, with MariaDB and Cassandra databases.

Key Features:

- **API Layer:** Provides RESTful endpoints for user authentication and movie streaming.
- **DAO Layer:** Manages database interactions.
- **Model Layer:** Contains data entities like Movie, Genre, and User.
- **Utility Layer:** Includes utilities such as DBConnection, JwtUtil, and VideoConverter.

The database structure consists of MariaDB for user data, movie details, and genres, and Cassandra for movie links.

The workflow covers user authentication (registration, login, JWTs), movie management (adding, retrieving, updating movies), user favorites, streaming management, role-based access control (RBAC), and video conversion to HLS format.

Transversal Competencies

xSTF (Extreme Security Task Force)

April 2024 – Present

- Current, serving as part of the management team.
- Participate in CTF challenges.

Share-UP – Student Organization

February 2022 - May 2023

- Maintained the main website by implementing structural changes for various events.
- Collaborated with talented peers, broadening my understanding of previously unfamiliar subjects like business strategy and marketing.
- Played a pivotal role in the Corporate Relations department, planning and executing events for companies and universities initiatives.
- Spearheaded a 6-month collaborative project with CRIAM, a leading healthcare technology firm, to strategize business and marketing approaches for their upcoming ventures.

Entrepreneurship in Science and Communication Pitch at FCUP

February 2022

- Acquired skills in identifying quality research articles using webofscience.com.
- Studied and applied the business model CANVAS.
- Collaborated on a team pitch, showcasing our product to academic professionals.

Straight Line Persuasion from Jordan Belfort

July 2021

- Completed an intensive paid course focused on mastering sales techniques, learning how to engage effectively and close deals with potential clients.
- Adopted impactful strategies to enhance body language and overall communication.

Certificates

Security

I have obtained several entry to mid-level certifications that showcase my foundational knowledge and growing expertise in various security domains. These certifications include:

- [TryHackMe – Jr Penetration Tester](#)
- [TryHackMe – Introduction to Cyber Security Learning Path](#)
- [IBM – Introduction to Cybersecurity Tools & Cyber Attacks](#)
- [PentesterLab – HTTP Badge](#)
- [PentesterLab – PCAP Badge](#)
- [PentesterLab – Essential Badge](#)
- [PentesterLab – Unix Badge](#)
- [PentesterLab – Introduction Badge](#)

Technical Skills

Programming:

- Have already programmed in Rust, Scala, Golang, Python, C, Java, Haskell, and Bash scripting.

Linux:

- Familiar with Linux processes, and terminal operations.

Cybersecurity:

- Fundamentals of Web app recon, vulnerability identification, and exploitation fundamentals.

Cloud:

- Have a basic understanding of AWS tools and services, including AWS SDK, AWS CLI, and cloud resources such as VPC, SG, and EC2.
- Have experience working with Google Cloud services, such as Cloud Storage Buckets and Compute Engine.

Football

2009-2019

A decade-long engagement with football has honed my:

- Teamwork
- Communication
- Responsibility
- Leadership abilities

Languages

- **Portuguese:** Native language
- **English:** C level