

Guilherme Almeida

COMPUTER SCIENCE & ENGINEERING STUDENT

Porto, Portugal

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Experience

Altice Labs

Aveiro, Portugal

SOFTWARE DEVELOPER INTERN

Fev. 2023 - Aug. 2023

- Worked on **modularizing** an existing solution using **REST APIs**.
- **Major contribution:** Development of a middleware with functionalities like: DTMF Support, Interactive Voice Response, Text-To-Speech, Automatic Speech Recognition, Audio Conferences, etc.
- **Technologies and tools:** Go, Asterisk, ARI, REST, Telecom, etc.

PENTESTER INTERN

Jul. 2022 - Sep. 2022

- Performed **penetration tests** and security assessments of the **infrastructure and webapps**, as well as (manual and automated) **security source code review** of the company's projects. Developed scripts and tools (bash/python) to detect vulnerabilities in clients' assets.
- **Major contribution:** Development of an efficient command-line tool in Bash and Python to help in checking pending vulnerability retesting against subdomains. It supports active and passive scanning techniques.
- **Technologies and tools:** AWS CLI, Burp Suite Pro, Bash, Go, Python, sqlmap, nmap, owasp amass, nuclei, filebuster, wpscan, etc.

xSTF - University of Porto CTF Team

Porto, Portugal

MANAGEMENT TEAM & SYSTEM ADMINISTRATOR

Aug. 2021 - Present

- Participated in **Capture The Flag Events**, bi-weekly trains and learning events focused on many **real world security issues**, how they work and **how to deal with them**.
- **Management Team Member** with focus in promoting and managing the group's activities (e.g., events, projects) and members, processes and recruitment and relationships with other organisations: student branches, faculty and university entities.

Semana de Informática

Porto, Portugal

CTF ORGANIZER AND MEMBER OF EXTERNAL RELATIONSHIPS DEPARTMENT

Jun. 2021 - Oct. 2022

- Helped in the organization of **2 consecutive editions** of SINF, which is the biggest event held by NIAEFEUP.
- **Created challenges**, helped **managing the infrastructure** and **supported the event** while it ran. It was a **2-day** online CTF organized for University students, with over **60 participants** in over **30 teams** and featured **21 unique challenges** (Crypto, Forensics, Misc, Pwn, Rev, Web).
- Dealt with the external **contact with companies** and helped them with their difficulties throughout the event.

NIAEFEUP Informatics Student Branch

Feup, Porto, Portugal

MEMBER

Dec. 2020 - Present

- Student branch of **about 80 students** mainly focused on Computer Science and Software Development.
- Development of projects, participating in activities and workshops

Projects

NIAEFEUP

UNI 

Jan. 2021 - Feb. 2022

- Helped in the development of a mobile app with more than 1000 downloads to track student activity (classes, exams, transports, etc.)
- **Technologies:** Flutter, Dart, Git

Course Related Projects

LDTS - SOFTWARE DESIGN AND TESTING LABORATORY  (3 PEOPLE, 2ND YEAR)

Oct. 2021 - Jan. 2022

- Development of a robust **2D dungeon crawler game**, using a MVC architecture and following test-driven development.
- **Major breakthroughs:** Use of OOP Design Patterns, MVC architecture and following test-driven development.
- **Technologies:** Java, Lanterna, Gradle, JUnit, Git

LCOM - COMPUTER LABORATORY  (3 PEOPLE, 2ND YEAR)

Feb. 2022 - Jun. 2022

- Development of a **wordle game replica** in MINIX using a MVC architecture.
- An event driven design was used, together with a state machine to control the game's state.
- The drivers for the peripherals were also programmed (Keyboard, Mouse, Graphics Card and Serial Port)
- **Technologies and tools:** C, CMake, Git, Doxygen

Education

FEUP - Faculdade de Engenharia da Universidade do Porto

Porto, Portugal

M.Sc. IN INFORMATICS AND COMPUTER ENGINEERING (M.EIC)

Sep. 2023 - Present

B.Sc. IN INFORMATICS AND COMPUTER ENGINEERING (L.EIC)

Sep. 2020 - Jul. 2023

Skills

Technical Languages Python, Javascript, Java, C/C++, SQL, Git, Docker, Bash, AWS, Flutter, Dart, PHP, HTML/CSS, Haskell, Linux, Laravel, Flask, GraphQL
Portuguese: Native, English: Advanced – C1 CEFR (Cambridge CAE), Italian: Beginner