

Alexandre Castro

+351 916 185 544 · alexandreareias1718@gmail.com

Guimarães, Portugal

BIOINFORMATICS / COMPUTATIONAL BIOLOGY STUDENT

Extremely proactive and rigorous, always embracing new projects and challenges in the environment in which I'm inserted. Possess a good sense of teamwork and a solution-driven thinking process, while always maintaining responsibility and autonomy. Strong sense of resiliency and adaptation to the various surging problems and situations.

KEY COMPETENCIES

Python (including biological and deep learning frameworks ,e.g: pyTorch, Tensorflow, BioPython and others), SQL, R (including frameworks such as Bioconductor and RShiny), MATLAB, HTML, JavaScript, Cloud Native Applications (Docker, AWS CloudFormation, Terraform, Kubernetes, ...), Version Control (Git) and Unix-based systems.

English - Proficiency Level (C2);

German - Basic understanding (A2 level)

PROFESSIONAL EXPERIENCE

Checkmarx Ltd.

June 2022 - Sep 2022; March 2023 - Sep 2023

Application Security Research Intern

Software testing and upgrading through the detection and creation of bugs;

Participated in several activities and workshops with the objective of furthering consolidating my knowledge in the AppSec area;

Worked directly with vulnerabilities in open-source projects and contributed to better cover older and newer vulnerabilities.

Vitória Sport Clube

Jan 2022 - Aug 2023

Athlete

Senior/Under-21 Volleyball Athlete;

National University Volleyball Champion 2018/2019, 2020/2021 - AAUM;

FPV Federation Cup 2018/2019.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Applied Biology - Universidade do Minho

Master of Science in Bioinformatics - Universidade do Minho

Attendance in programming and general computer science classes, where programming languages such as Python, R, SQL and MATLAB were taught; Development of a research project in which the use of a deep learning model is made to create new COVID-19 antibodies;

Currently working on a dissertation regarding the development of a novel approach to understanding the effects of transition metals in gut microbial communities.

EXTRACURRICULAR ACTIVITIES

Organization staff committee member

BOD XI - Bioinformatics Open Days 2022;