Pedro Galvão Software Engineer

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LANGUAGES

English – C2 (Fluent) | French – C1 (Fluent)
Portuguese – Native | German – A1 (Beginner)

Technical Skills

Programming Languages	Rust	★★★☆☆	Python	★★★★★
	C	★★★★☆	C++	★★★★☆
	Java	★★★★☆	Javascript	★★☆☆☆
	Go	★☆☆☆☆	Typescript	★☆☆☆☆
Operating Systems	Linux	★★★☆☆	Windows	★★★☆☆
Databases	SQL	★★★☆☆	MySQL	★★★☆☆
	PostgreSQL	★★★☆☆	MongoDB	★★☆☆☆
Methodology	Agile, Scrum	★★★☆☆		
Testing and Validation	Pytest	★★★★☆	JUnit	★★★☆☆
Frameworks	React JS	★★☆☆☆	Spring (Java)	★★☆☆☆
	QT	★★☆☆☆	Rocket (Rust)	★★☆☆☆
Others	Git	★★★★☆	Virtual Machines	★★★☆☆
	Gitlab CI/CD	★★★☆☆	Docker	★★★★☆
	Kubernetes	★★☆☆☆	Github CI/CD	★★☆☆☆

EDUCATION

Faculdade de Engenharia da Universidade do Porto (FEUP)
Master in Informatics and Computing Engineering
September 2020 – October 2022

Institut National des Sciences Appliquées de Toulouse (INSA Toulouse)
Exchange semester in the program Erasmus +
September 2020 – January 2021

Faculdade de Engenharia da Universidade do Porto (FEUP)
Bachelor in Informatics and Computing Engineering
September 2017 – July 2020

PROFESSIONAL EXPERIENCE

Médiane Système – Software Developer

June 2023 – present

- Development of tools for testing communication protocols, validating inputs and automation of tasks
- Test automation and CI/CD pipelines in Gitlab
- Creation of graphical interfaces
- Self training and personal projects in Rust, Kubernetes, Go, etc.

Technical Environment:
Python, C++, Shell, VirtualBox, Wireshark, Gitlab CI/CD, Qt5

SAP Labs France - Security Research Internship

February 2022 – August 2022

- Worked on the vulnerability scanner Eclipse Steady, improving performance, architecture and scalability
- Creation of a REST API, parallelization of processes, implementation of unit tests
- Developed a tool to aggregate and analyse vulnerability data from several sources
- Master's dissertation on vulnerability databases and its applications to software security

Technical Environment:
Java, Python, Spring, Docker

INESC-TEC - Research on Machine Learning and Cybersecurity

April 2021 – September 2021

- Used Deep Learning to detect malware and vulnerabilities in source code
- Searched for work developed in the field and elaborated new approaches
- Created a model using Graph Neural Networks
- Used adversarial samples to test robustness of the classifiers

Technical Environment:
Python, Tensorflow, Javascript, C, C++

SPeCS - Internship in Incomplete Parsing

August 2020 - September 2020

- Developed software to automatically fix C / C ++ compilation errors and extract AST's for statical analysis

Technical Environment:
Java, C++, Clang

INESC-TEC - Internship in Computer Vision

July 2019 – August 2019

- Testing deep Learning algorithms for visual attention and object detection
- Implemented automatic creation of videos

Technical Environment:
Python, Tensorflow, Javascript

ADDITIONAL EDUCATION

Coursera Online Courses:

- Cisco Network Security - 2024
- Advanced Golang Programming - 2024
- Connectivity and Security in Embedded Systems - 2023
- IBM Cyber Threat Intelligence - 2022
- Probabilistic Graphical Models - 2022

LinkedIn

- React Grundkurs - 2024
- Typescript Grundkurs - 2024
- Data Mining with Databricks/Spark and Automated Machine Learning in the Cloud - 2022

Huawei - HCIA Cloud Computing Course - 2021
IEEE Student Branch - Golang Workshop - 2019
CBPF - Introductory Courses on Particle Physics - 2017

AWARDS AND HONORS

EES Tech Cybersecurity Challenge 2021 FEUP - 3rd place
Brazilian Mathematics Competition in Public Schools (OBMEP) - Silver Medals 2009, 2011, 2012, 2013 and Golden Medal 2015
Brazilian Physics Competition (OBF) - Bronze Medal 2015
Brazilian Astronomy Competition (OBA) - Golden Medal 2015
Brazilian Mathematics Competition (OBM) - Honorable Mention 2015