# **Patrick Coser**

# Data Processor || CyberSecurity

Last update: March 6, 2024

Up-to-date version of CV is available at

https://patrickpca.github.io/cv-en

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#### Resume

As an Oceanographer with additional training in Cyber Defense from FIAP, I have specialized in the intersection between ocean science and data technology, with a focus on the acquisition, processing, and analysis of oceanographic data through advanced methods. My experience ranges from the use of bathymetric technologies and GIS analysis to the application of precise positioning systems, such as RTK and DGPS, in hydrographic and geophysical service projects. I possess solid skills in handling environmental data, such as ADCP, CTD profiles, dissolved oxygen, as well as data on waves, currents, sea levels, and meteorology. My proficiency in Python programming, enhanced by knowledge in data analysis and cybersecurity, allows for the development of efficient routines for processing and presenting oceanographic data. Experience in cybersecurity complements my analytical capability, bringing a rigorous approach to the protection, analysis, and management of sensitive data, essential for the integrity and security of oceanographic projects.

# **Professional Experience**

November de 2022 - Now

#### Mazars

- Internal and External Pentesting
- Pentesting on Web Applications
- Implementation of Security Policies following guidelines from CMN, Bacen, CVM, NIST, and ISO 27K
- Monitoring, auditing, and assessing the maturity of information security processes
- Analysis and mitigation of risks and vulnerabilities in cyber security systems, applications, processes, and infrastructures
- Automate internal processes, creating interactive dashboards and web systems



April de 2018 - July de 2021

#### **EGS Brasil**

Data processing with Python and the development of technical reports for clients, incorporating automated methods for document creation using the language. Utilized libraries include Numpy, Pandas, Matplotlib, Cartopy, Seaborn, gsw, pylab, and pycircstat. Maintenance, testing, and development of procedures for oceanographic electronic equipment such as SBES, ADCP, CTD and HOBO. Data acquisition via watercraft, conducting surveys, and installing tide gauges.



February de 2016 - December de 2016

# Ecoceano - Junior Consulting Company in Oceanography and Environmental Education

Managing cash flow, preparing informative reports, conducting strategic planning, and supervising advisors in the distribution of tasks.

Environmental Education | Cash Control | Accounting

#### Education

- Cyber Defense Faculty of Informatics and Administration Paulista FIAP [2022]
- Bachelor's in Oceanography Federal University of Espírito Santo UFES [2018]

#### Certifications

- New Professional Pentester and Pentester Experience DESEC
- OPSEC Cyber Intelligence in Practice Vinicius Vieira
- OWASP Application Security Verification Standard and Top Ten Alura
- Professional Qualification Certificate in Cybersecurity FIAP
- Professional Qualification Certificate in Information Security Management FIAP
- The New Generation in Professional Pentesting DeSec
- Introduction to Cybersecurity CISCO

# **Experience**

April de 2018 - December de 2016

#### **Data Processor**

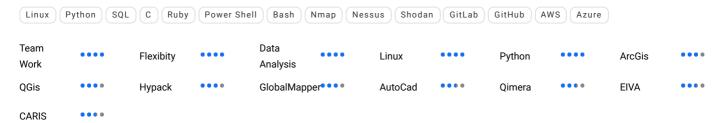
Data analysis; Data qualification; Creation of data processing workflows; Automation of data processing.



March de 2016 - January de 2021

#### Cyber Security

Internal and External Pentesting; Web application pentest; Vulnerability analysis.



# **Projects**

# Shore Approach - Petrobras (jul-19 / mar-21)

Coastal monitoring Jaconé (RJ), Cabiúnas (RJ), Barra do Riacho (ES) e Regência (ES).

Monthly campaigns with data acquisition of beach profiles with SBES and RTK, Quality control, and technical report.

Tide gauge installation. Mooring and retrieval of ADCP and CTD with deployment in a Sonardyne LRT.

Sidescan sonar data acquisition.



# Programa Amazônia Integrada Sustentável (PAIS) - Rede Nacional de Ensino e Pesquisa (RNP) (May - jun 2021)

Conducting a pre-laying cable route survey along the Amazon River, this project incorporates bathymetric and sonographic mappin<sub>|</sub> seismic data acquisition, and the collection of environmental, sedimentological, and topographical data. It utilizes Bathyswath and Global Mapper software for comprehensive analysis and mapping.

Python (SeatermV2) (Ruskin (ITER SYSTEMS BathySwath echosounder SBG SYSTEMS Ellipse 2 MRU (Teledyne DMS-05 MRU)

## Pre cable lay route survey (Oct 2021)

The project, undertaken for the client Ellalink, is executed with the advanced CARIS HIPS and SIPS software, focusing on onshore in Fortaleza, Brazil. This project utilizes the state-of-the-art MBES R2Sonic2024 single head instrument to ensure precise map surveying outcomes.

MBES R2Sonic2024 single head Valeport CTD Python

## Centrais Eletricas de Sergipe (Nov 2020 - Mar 2021)

The Coast Morphodynamics Monitoring Program, commissioned by CELSE – Centrais Elétricas de Sergipe S.A., utilizes advanced soft tools like Bathyswath Processor and QGIS for onshore operations in Sergipe, Brazil. The project employs cutting-edge instrumenthe ITER SYSTEMS BathySwath echosounder, SWiFT Valeport CTD, SBG SYSTEMS Ellipse 2 MRU, and Teledyne DMS-05 MRU, to ensure preficient monitoring of coastal dynamics.

BathSwatch Echosounder Valeport CTD SBG System MRU Teledyne DMS-05 MRU

#### Alcatel Submarine Network - ASN (Apr - jun 2019)

Cable route survey in São Paulo, Praia Grande - Brasil. Mobilization of vessels, side scan sonar, SBES and RTK, data acquisition and quality control.

Hypack Echart Scanline HOBOware