## **Patrick Coser**

# Oceanographer || Data Processor || Geoprocessing

Last update: May 11, 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**

October 2021 - Now

#### Freelance - DataProcessor

- Qimera Operation for Bathymetric Data: Efficient use of Qimera software for processing and analyzing depth
- Optimization with AutoClean and qimera: Application of automatic filters to enhance the quality of bathymetric data
- Data Management with EIVA: Strategies for effective management of large volumes of bathymetric data using
- Multisource Data Integration: Combining bathymetric data with other geospatial data sources for comprehensive analysis



November 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 2018 - July 2021

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.

Data Analysis Python Geoprocessing

February 2016 - December 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.



### **Education**

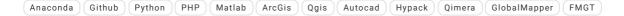
- Cyber Defense Faculty of Informatics and Administration Paulista FIAP [2022]
- Bachelor's in Oceanography Federal University of Espírito Santo UFES [2018]

## **Experience**

December 2016 - Now

#### **Data Processor**

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



January 2021 - Now

### **Cyber Security**

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



## **Projects**

Date	Client	Project	Vessel	Software	Designation
Mar/2023 - Apr/2023	EGS	EGS UK - Sunderland	-	Qimera AutoClean FMGT QGis GlobalMapper Python	MBES Data Processor - Remote

Date	Client	Project	Vessel	Software	Designation
Jul/2019 - Mar/2021	Petrobras	Shore Approach	Sem Limites	Github Python PHP Matlab ArcGis Qgis Autocad Hypack HOBOware Global Mapper Edgetech Discover SignatureWaves Echart Ruskin SeatermV2	Senior Geoscience Technician
May/2021 - Jun/2021	Rede Nacional de Ensino e Pesquisa (RNP)	Programa Amazônia Integrada Sustentável (PAIS)	-	Python SeatermV2 Ruskin  ITER SYSTEMS BathySwath echosounder  SBG SYSTEMS Ellipse 2 MRU  Teledyne DMS-05 MRU	Senior Geoscience Technician
Oct/2021	EllaLink	Pre cable lay route survey	-	Python SeatermV2 Ruskin  ITER SYSTEMS BathySwath echosounder  SBG SYSTEMS Ellipse 2 MRU  Teledyne DMS-05 MRU	Senior Geoscience Technician
Nov/2020 - Mar/2021	CELSE – Centrais Elétricas de Sergipe S.A	Centrais Eletricas de Sergipe	-	Hypack Echart Scanline HOBOware  Geosuite Acquisiton Edgetech Discover  Sonardyne Ranger Valeport Datalog Sonarwiz  Qinsy Qimera	Senior Geoscience Technician II
Ago/2019 - Dez/2019	Alcatel Submarine Network - ASN	Malbec Submarine Cable - Cable route survey in Rio de Janeiro and Santos - Brasil	-	Hypack Echart Scanline HOBOware  Geosuite Acquisiton Edgetech Discover  Sonardyne Ranger Valeport Datalog Sonarwiz  Qinsy Qimera	Hydrography Technical Assistant III
May/2019 - Jul/2019	TE SubCom	South Pacific Subsea Cable system	-	Hypack Python QGIS Qimera Global Mapper	Hydrography Technical Assistant III
Oct/2018 - Dec/2018	Petrobras	Shore Approach	J.A. Tibúrcio	Hypack Echart Scanline HOBOware Global Mapper Edgetech Discover Nortek Aquadopp SIG500	Freelance