## **Patrick Coser**

# Oceanographer || Data Processor || Geoprocessing

Last update: May 10, 2024

Up-to-date version of CV is available at

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

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### Resume

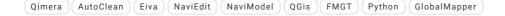
As an Oceanographer with additional training in Cyber Defense from FIAP, I have specialized in the intersection between ocean science and data technology, with a focus on the acquisition, processing, and analysis of oceanographic data through advanced methods. My experience ranges from the use of bathymetric 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**

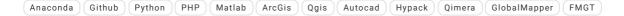
- Cyber Defense Faculty of Informatics and Administration Paulista FIAP [2022]
- Bachelor's in Oceanography Federal University of Espírito Santo UFES [2018]

### **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

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