

# Patrick Coser

## Data Processor

Last update: May 10, 2024

Up-to-date version of CV is available at

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

Local

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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 data
- 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 EIVA
- Multisource Data Integration: Combining bathymetric data with other geospatial data sources for comprehensive analysis

Qimera

AutoClean

Eiva

NaviEdit

NaviModel

QGis

FMGT

Python

GlobalMapper

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

Pentest

Audit

Vulnerability Assessment

April 2018 – July 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 HOB0. 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.

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]

## Experience

December 2016 - Now

### Data Processor

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

Anaconda Github Python PHP Matlab ArcGis Qgis Autocad Hypack Qimera GlobalMapper FMGeocoder

January 2021 - Now

### Cyber Security

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

Linux Python SQL C Ruby Power Shell Bash Nmap Nessus Shodan GitLab GitHub AWS Azure

Team Work	••••	Flexibity	••••	Data Analysis	••••	Linux	••••	Python	••••	Qimera	••••
FMGeocoder	••••	ArcGis	••••	QGis	••••	EIVA	••••	Hypack	••••	GlobalMapper	••••
AutoCad	••••	CARIS	••••								

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