Patrick Coser

Data Processor

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 2023 – Now

Freelance - DataProcessor

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- 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
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Qimera | AutoClean | Eiva | NaviEdit | NaviModel | QGis | FMGT | Python | GlobalMapper

November 2022 – Now

Mazars

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- 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
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Pentest | Audit | Vulnerability Assessment

April 2018 – July 2021

EGS Brasil

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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
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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.

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 Title	Vessel	Software	Designation
Jul 2019 - Mar 2021	Petrobras	Shore Approach	Ocean Observer	Github, Python, PHP, Matlab, ArcGis, Qgis, Autocad, Hypack, HOBOware, Global Mapper, Edgetech Discover, SignatureWaves, Echart, Ruskin, SeatermV2	Coastal monitoring and data acquisition project