Patrick Coser

Oceanographer || Data Processor || Geoprocessing

Last update: May 14, 2024

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Up-to-date version of CV is available at
○ https://patrickpca.github.io/cv-en

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

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MBES processing through the softwares: QPS Qimera and FMGT, EIVA NaviEdit and Navimodel, Beamworx AutoClean
and AutoPatch. Data validation, calibration, backscatter, quality control, deliverables production.
Multisource Data Integration: Combining bathymetric data with other geospatial data sources and phyton
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
procedures for oceanographic electronic equipment such as SBES, ADCP, CTD and HOBO. Data acquisition
via watercraft, conducting surveys, and installing tide gauges.
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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   FMGT

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	●●●●
FMGT	●●●○	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 - Remote
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

Date	Client	Project	Vessel	Software	Designation
May/2021 - Jun/2021	Rede Nacional de Ensino e Pesquisa (RNP)	Programa Amazônia Integrada Sustentável (PAIS)	Maruaga	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