Patrick Coser

Data Processor || CyberSecurity

Last update: March 6, 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

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

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Managing cash flow, preparing informative reports, conducting strategic planning, and supervising advisors in the
distribution of tasks.
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Education

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

Certifications

- [New Professional Pentester and Pentester Experience - DESEC](#)
- [OPSEC - Cyber Intelligence in Practice - Vinicius Vieira](#)
- [OWASP - Application Security Verification Standard and Top Ten - Alura](#)
- [Professional Qualification Certificate in Cybersecurity - FIAP](#)
- [Professional Qualification Certificate in Information Security Management - FIAP](#)
- [The New Generation in Professional Pentesting - DeSec](#)
- [Introduction to Cybersecurity - CISCO](#)

Experience
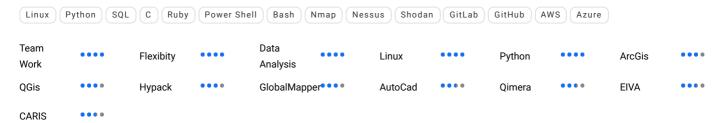
December 2016 - July 2021

Data Processor

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Data analysis; Data qualification; Creation of data processing workflows; Automation of data processing.
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Anaconda · Github · Python · PHP · Matlab · ArcGis · Qgis · Autocad · Hypack · Qimera

January 2021 - March 2024

Cyber Security

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Internal and External Pentesting; Web application pentest; Vulnerability analysis.
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Linux · Python · SQL · C · Ruby · Power Shell · Bash · Nmap · Nessus · Shodan · GitLab · GitHub · AWS · Azure

Skill	Level	Skill	Level	Skill	Level	Skill	Level	Skill	Level	Skill	Level
Team Work	●●●●	Flexibity	●●●●	Data Analysis	●●●●	Linux	●●●●	Python	●●●●	ArcGis	●●●○
QGis	●●●○	Hypack	●●●○	GlobalMapper	●●●○	AutoCad	●●●○	Qimera	●●●○	EIVA	●●●○
CARIS	●●●○										

Projects

Shore Approach - Petrobras (jul-19 / mar-21)

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Coastal monitoring Jaconé (RJ), Cabiúnas (RJ), Barra do Riacho (ES) e Regência (ES).
Monthly campaigns with data acquisition of beach profiles with SBES and RTK, Quality control, and technical report.
Tide gauge installation. Mooring and retrieval of ADCP and CTD with deployment in a Sonardyne LRT.
Sidescan sonar data acquisition.
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Github · Python · PHP · Matlab · ArcGis · Qgis · Autocad · Hypack · HOBOware · Global Mapper · Edgetech Discover · SignatureWaves · Echart · Ruskin · SeatermV2

Programa Amazônia Integrada Sustentável (PAIS) - Rede Nacional de Ensino e Pesquisa (RNP) (May - jun 2021)

Conducting a pre-laying cable route survey along the Amazon River, this project incorporates bathymetric and sonographic mapping, seismic data acquisition, and the collection of environmental, sedimentological, and topographical data. It utilizes Bathyswath Processor and Global Mapper software for comprehensive analysis and mapping.

Python · SeatermV2 · Ruskin · ITER SYSTEMS BathySwath echosounder · SBG SYSTEMS Ellipse 2 MRU · Teledyne DMS-05 MRU

Pre cable lay route survey (Oct 2021)

The project, undertaken for the client Ellalink, is executed with the advanced CARIS HIPS and SIPS software, focusing on onshore activities in Fortaleza, Brazil. This project utilizes the state-of-the-art MBES R2Sonic2024 single head instrument to ensure precise mapping and surveying outcomes.

MBES R2Sonic2024 single head · Valeport CTD · Python

Centrais Eletricas de Sergipe (Nov 2020 - Mar 2021)

The Coast Morphodynamics Monitoring Program, commissioned by CELSE – Centrais Elétricas de Sergipe S.A., utilizes advanced software tools like Bathyswath Processor and QGIS for onshore operations in Sergipe, Brazil. The project employs cutting-edge instruments, including the ITER SYSTEMS BathySwath echosounder, SWiFT Valeport CTD, SBG SYSTEMS Ellipse 2 MRU, and Teledyne DMS-05 MRU, to ensure precise and efficient monitoring of coastal dynamics.

BathSwatch Echosounder · Valeport CTD · SBG System MRU · Teledyne DMS-05 MRU

Alcatel Submarine Network - ASN (Apr - jun 2019)

Cable route survey in São Paulo, Praia Grande - Brasil. Mobilization of vessels, side scan sonar, SBES and RTK, data acquisition and quality control.

Hypack · Echart · Scanline · HOBOware