FRANCISCO CASTRO

Systems Analyst & Product Owner · Supply Chain & Transportation Technology · Blue Yonder LBS/TMS integrations · Bridging business and engineering · Porto, Portugal

fc@nrio.eu
francisco.nrio.eu
github.com/franciscorcastro
linkedin.com/in/franciscorcastro

Systems Analyst & Product Owner working in supply chain and transportation technology in Porto, Portugal — bridging business requirements and engineering delivery. At ProperInn and AFACIS, I architect Blue Yonder LBS/TMS integrations, PostgreSQL data structures, and AI-backed software workflows. Outside client work, I build developer and transit tooling like fush (Rust) and nbus (Go/TypeScript).

EXPERIENCE

Systems Analyst — ProperInn Aug 2024 – Present · Porto, Portugal

- Architecting Blue Yonder LBS/TMS integrations, mapping operational requirements into reliable sync contracts and system workflows.
- Designing normalized, indexed PostgreSQL data structures built to scale for high-volume transportation and logistics workloads.
- Defining product requirements, technical specs, and spec-driven agentic AI workflows for client software delivery.

Solutions Architect — AFACIS Aug 2024 – Present · Barcelona, Spain

- Leading technical discovery and solutions architecture across client engagements, aligning domain constraints with maintainable system design.
- Translating stakeholder needs into clear architectural specifications, data models, and iterative delivery plans.

Service Desk Agent — Fujitsu Portugal Sep 2023 – Jul 2024 · Braga, Portugal

Technical incident triage, troubleshooting, and multilingual user support across enterprise IT environments.

Curricular Intern (19.6 / 20) — Embassy of Portugal in Athens Oct 2022 – Apr 2023 · Athens, Greece

Daily political and macroeconomic reporting (in coordination with AICEP), consular administration, cultural programming, diplomatic representation, cloud workflow transition, telephone routing redesign, and a consular productivity monitoring system.

Porto Ambassador — SPEAK - Share your world! Oct 2020 – Sep 2022 · Porto, Portugal

Community coordination and intercultural exchange facilitation in Porto.

Treasurer — NERI-UP Oct 2020 – Oct 2021 · Porto, Portugal

Financial management and budgeting for the University of Porto International Relations student society.

PROJECTS

fush (v0.2.6 · Rust · GPL-2.0) github.com/franciscorcastro/fush

Friendly Unleashed Shell — fish-like syntax, Windows-native, written in Rust. A Windows-native shell delivering fish's ergonomics and scripting syntax without Cygwin, MSYS2, or WSL. Built around CreateProcess and ConPTY for native Windows startup speed and direct process spawning.

nbus (v0.1.0 · Go / TypeScript · Private) francisco.nrio.eu/nbus/

Fast, minimal live STCP bus arrivals lookup for Porto — Go single binary + vanilla TypeScript. A lightweight web app for checking next STCP buses by stop code or stop name without heavy transit apps. Built with a zero-dependency Go backend that proxies and caches STCP's realtime API, paired with a strict TypeScript frontend you can test right here or on the dedicated /nbus/ page.

SKILLS

AI & Agents: Agentic AI Development, Retrieval-Augmented Generation (RAG), Generative AI & Prompt Engineering, Google Gemini

Data & Databases: PostgreSQL & Database Design, SQL, Power Query & Tableau, Statistical & Exploratory Analysis, Data Cleaning & Visualization

Systems & Tooling: Software Systems Analysis, Blue Yonder LBS / TMS Integrations, Rust (CLI & Windows tooling), GitHub & Cloud Computing

Domain & Delivery: Supply Chain & Transportation Tech, Product Ownership & Business Alignment, Solutions Architecture & Consulting, Project & Priority Management

LANGUAGES

Portuguese (Native / Bilingual) · English (Native / Bilingual) · French (Professional) · Spanish (Professional)

EDUCATION

NOVA FCSH 2021 – 2023

MSc in Political Science & International Relations — Thesis internship completed at the Embassy of Portugal in Athens.

Universidade do Porto 2018 – 2021

Bachelor's Degree (Licenciatura) — Additional coursework completed in Spring 2021.

Collegium Civitas Feb 2020 – Jun 2020

ERASMUS Exchange — Warsaw, Poland.

VOLUNTEERING

VO.U. - Associação de Voluntariado Universitário Oct 2020 – Apr 2021

Instructor, VO.U. Formar — Facilitated sessions and workshops advocating human rights.

AEFLUP Oct 2019

Cultural Department Member — Organized cultural events for students at the Faculty of Arts (FLUP).

Colégio Paulo VI Sep 2014 – Jun 2015

Student Mentor — Peer mentoring program.

FEATURED CERTIFICATIONS

GitHub Certified: Agentic AI Developer Microsoft / GitHub · Jul 2026 – Jul 2027 · 6D88FC8D64D509BA

Design Databases With PostgreSQL Codecademy · Oct 2025

Google 5-Day Gen AI Intensive Kaggle · Apr 2025

Intermediate Python DataCamp · Jan 2025

Google Data Analytics Specialization Google / Coursera · Jul 2024 · 8CNJN3PWJ9HP