

NUNO MENDES

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Github

Page

Nyon, Switzerland

Portuguese

EXPERIENCE

Senior Full Stack Engineer

Breitling

<https://www.breitling.com>

April 2024 - Present

Grenchen, Switzerland

Served as a critical team member in developing Breitling's global e-commerce platform, enhancing the digital presence for the Swiss luxury watchmaker across 140+ countries.

- Designed and implemented high-performance ASB message processing system handling thousands of queue messages per minute.
- Designed and developed scalable REST and GraphQL services utilizing Redis caching and PostgreSQL databases, optimizing data retrieval and transaction processing for new platform features.
- Led integration initiatives with critical third-party services including Adyen payment processing, Algolia search optimization, Salesforce and SAP systems.

Python

React

Next.js

GraphQL

Saleor

FastAPI

Senior Software Engineer

CERN - Converter Controls Software

<https://cern.ch/ccs-tools>

May 2021 - March 2024

Geneva, Switzerland

Lead Developer for "FGC Commander": Designed and developed an essential web application for Power Converter experts at CERN, offering comprehensive monitoring and control over Power Converters within the accelerator complex.

OAuth2

Vue.js

Pinia

Vue Router

Vite

i18n

Bootstrap

Vitest

Cypress

Architectural Designer of "FGC-API": Designed and developed an unified web interface specification that integrates a REST API and a websocket service for real-time access, updates, and control over Power Converter resources, with server support for both OAuth2 and RBAC tokens.

Python

FastAPI

PyJWT

Owner of Containerisation and Orchestration project: Supervised team and revamped deployment infrastructure with automated master branch CI/CD and a custom CLI for multiple environment targets.

Docker

Docker-compose

Traefik

Kubernetes

Helm

Argo CD

Recruitment and Talent Acquisition: Actively coordinated and implemented comprehensive recruitment strategies, including planning and conducting in-depth interviews and coding challenges to identify and onboard top-tier talent for our technical team.

Junior Software Engineer

CERN - Converter Controls Software

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Feb 2018 - April 2021

Geneva, Switzerland

Lead Developer of 'FortLogs': Designed core data storage solution for 5000+ Power Converters, handling multiple data types with REST API, OAuth2 security, and websocket streaming for live data access on the browser.

Lead Python Developer: led team's Perl to Python migration, porting core libraries for device communication via Serial, TCP/IP, UDP and GPIB protocols with RBAC token management and Sphinx documentation.

PostgreSQL

Python

FastAPI

OAuth2

pandas

numpy

TCP/IP

UDP

Serial

GPIB

Multithreading

SKILLS

Frontend JavaScript • HTML5 • CSS3 • Vue.js • Nuxt • Tailwind.js • React • Vite • Vitest • Cypress • Figma • Playwright • Typescript • Three.js

Backend: Python • Java • FastAPI • Django • Flask • nginx • apache • traefik

Databases: PostgreSQL • Oracle • Sqlite • SQLAlchemy • Redis • MongoDB

DevOps: Docker • Docker Compose • Kubernetes • Helm • Argo CD • Git • GitLab CI • AWS • Datadog • Sentry • Cloudflare • Supabase

Languages: Portuguese (native) • English (fluent) • French (B1)

PROJECTS

Hexapod | Video

Lead a team of 10 people to build an Hexapod robot, from scratch, while having an active role on its software and hardware design. Won 3D printer at Lisbon Maker Faire.

Slime Ball

Slime Soccer game made with React and Three.js compatible with PS5 controllers.

Differential Drive Robot | Video

Designed and built our own autonomous line follower robot from scratch with an Arduino board.

Heavy Machinery Part Browser

Interactive Web App to procure heavy machinery parts, measurements and compatibility.

EDUCATION

M.Sc. in Electrical and Computer Engineering

Instituto Superior Técnico

Dec 2017

Lisbon, Portugal

BS in Biomedical Engineering

Instituto Superior Técnico

Jul 2014

Lisbon, Portugal