

NUNO MENDES

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EXPERIENCE

Senior Full Stack Engineer

Breitling <https://www.breitling.com>
📅 April 2024 - Present 📍 Grenchen, Switzerland

Working on the new e-commerce platform for Breitling, a Swiss luxury watchmaker, using the latest technologies to provide a seamless shopping experience for customers.

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.

Python FastAPI OAuth2 HTML5 CSS3 Vue.js Vuex Pinia
Vue Router Vite i18n Bootstrap Vitest Cypress

Architectural Designer of 'FGC-API': Designed and developed a 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: Led project with 2 colleagues under my wing, streamlining the onboarding process for both internal and external CERN operations using containers, and enhanced deployment setup with automatic deployments for master branch commits and a simplified CLI for various other deployment 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.

Support: Provided continuous support for issues raised by colleagues in JIRA and participated in the operationally critical 24/7 on-call rotation, supporting the mission-critical Power Converter infrastructure.

Junior Software Engineer

CERN - Converter Controls Software <https://cern.ch/ccs-tools>
📅 Feb 2018 - April 2021 📍 Geneva, Switzerland

Lead Developer of 'FortLogs': Designed and developed a core data storage solution for Power Converter acquisition logs at CERN, handling various data types like analog, binary, bode, pole-zero plots, and tabular data.

- The system is crucial for over 5000 operational Power Converters, facilitating data management and retrieval, and integrating with multiple applications and services.
- Features a REST API with OAuth2 access management and a websocket service for live data streaming.

PostgreSQL Python FastAPI OAuth2 pandas numpy pydantic

Lead Python Developer: Spearheaded the team's language migration from Perl to Python as its first python developer:

- Ported core libraries essential for communication and control of Power Converters and other devices using Serial (USB), TCP/IP, UDP and GPIB protocols, with RBAC token management and proper documentation built with Sphinx.

Python TCP/IP UDP Serial GPIB Multithreading

SKILLS

Frontend JavaScript • HTML5 • CSS3 • Vue.js • Nuxt • Tailwind.js • SASS • PrimeVue • Vite • Vitest • Cypress • Figma • Playwright


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


Databases: PostgreSQL • Sqlite • SQLAlchemy • Redis • MongoDB


DevOps: Docker • Docker Compose • Kubernetes • Helm • Argo CD • Git • GitLab CI • AWS


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.

 **SocRob Robotics Team**
Competed in RoboCup 2016 and European Robotics League 2016 and was in charge of a robotic arm for manipulation tasks.

 **Differential Drive Robot | 📺 Video**
Designed and built our own autonomous robot from scratch with an Arduino board. It follows lines and avoids obstacles.

 **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