

Victor Elízio Pierozan

TECHNICAL LEAD • BERLIN

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Brazilian & Italian (EU work allowed)

Technical lead in cardiac medical devices, four years at one company, across backend, web and mobile, on a telemonitoring platform following over 2,000 heart-failure patients. Writing production code alongside the team, while building the infra, CI, release, observability and test stack. Close enough to the clinic to shape what gets built, under IEC 62304, MDR, ISO 27001 and SOC 2.

EXPERIENCE

10/24 → present

1 yr 10 mo

Noah Labs

Technical Lead

- Lead the technical direction for four engineers across backend, web and mobile. Set the process the team ships on, plus the technical hiring loop: designed the challenge, runs the interviews.
- Architected and implemented the voice-biomarker medical device: API, ML inference worker, a Postgres-backed job queue between, and the infra, CI/CD and deployment platform Product and R&D teams ship on. All with Terraform on Google Cloud.
- Own observability, delivery and test infrastructure – OTel into SigNoz, Grafana, Sentry; GitHub Actions, LaunchDarkly, Expo OTA. The same logging carries the SOC 2 evidence, on Vanta.
- Built Withings drop-shipment integration: devices ship direct to patients, with vendor API order submission and tracking.
- Architected a unified cardiac implant integration – Boston Scientific, Medtronic, Abbott and Biotronik feed one pipeline, so clinicians see transmissions consistently across vendors.

FastAPI • Postgres • Terraform • GCP • React • React Native

04/24 → 10/24

6 mo

Noah Labs

Full Stack Developer

- Led the rebuild of the redesigned clinician web app and patient mobile app: parallel repository, cut over in one move.
- Consolidated a drifted design system on Material UI, moved state onto Jotai and TanStack Query. Implemented a Tolgee-based, type-safe translations system that auto-detects unused keys with Playwright testing and CI/CD.
- Built the clinical workflow screens – onboarding, patient data editing and alert configuration so clinicians configure what escalates.

TypeScript • React • React Native • Expo • Material UI

10/22 → 04/24

1 yr 6 mo

Noah Labs

Backend Developer

- Built the platform backend from scratch – FastAPI, Postgres, Python workers and Kafka (Redpanda), all carrying patient data, Dockerised on Hetzner.
- Modelled the clinical domain – health data model, configurable alerts, dynamic questionnaires and tenant isolation.
- Established the team's CI, review and release process, plus centralised observability on OpenTelemetry and SigNoz.
- Built the Withings webhook data fetching: per-user cursors committed with the write-ahead log and a sweep that refetches what the callbacks missed. Kill a worker mid-fetch and nothing is lost or duplicated.
- Tests declare the requirement they verify in their own docstrings. Built pytest and Vitest plugins that harvest it into machine-readable results, and the IEC 62304 evidence report is generated from a CI run rather than assembled by anyone.

FastAPI · SQLAlchemy · Postgres · Kafka (Redpanda) · NGINX · Hetzner · Docker

08/22 → 04/23

8 mo

Fraunhofer IPT

Fullstack Developer

- Built the web interface for a glass material-flow and shrinkage simulation package – React, Material UI, Plotly.js, D3.js.
- Reimplemented the Flask and MongoDB backend on FastAPI.

React · Plotly.js · D3.js · Material UI · FastAPI · MongoDB

03/22 → 08/22

5 mo

GALAX.IA

Data Scientist

- Automatic leak detection for a water utility from flow-rate telemetry – Pandas and NumPy processing, PyTorch models for leak signatures.

Python · Pandas · NumPy · PyTorch

02/21 → 08/22

1 yr 6 mo

LISHA – UFSC

ML Researcher

- Fault detection in Python and TensorFlow on Renault vehicle ECU data.
- Qt and Python tool for batch-analysing their internal validation tests.

Python · TensorFlow · Qt

11/19 → 09/20

10 mo

Tentáculo.Digital

Full Stack Developer

- React and React Native interfaces for a national broadcaster's news app, a banking analytics dashboard and a food distribution system.
- Node services on AWS Lambda backed by MongoDB, deployed via the Serverless Framework.
- Often handed the work nobody there had done before – a PySpark, PostgreSQL and Glue ETL pipeline, and a dockerised WhatsApp bot.

React · React Native · Node · AWS Lambda · MongoDB · PySpark

EDUCATION

02/18 → 05/23

UFSC / RWTH

B.Sc. Mechatronics Engineering – 5-year integrated degree

Ten semesters full time – Brazil runs engineering as one 5-year cycle, not 3+2. On time, nothing failed, 8.21/10 average. Part of it at RWTH Aachen, in master's-level ML and distributed computing.

Data-driven Anomaly Detection of Engine Knock based on Automotive ECU

SBESC 2022, and the final thesis: ML on ECU time-series to detect engine knock.

[IEEE Xplore](#)

SKILLS

lang Python · TypeScript · SQL · Rust · C/C++
back FastAPI · SQLAlchemy · Pydantic · Postgres
· Alembic · Kafka (Redpanda)
front React · React Native · Expo · TanStack
Query · Material UI
infra GCP · Hetzner · Docker · Terraform ·
GitHub Actions · NGINX · Linux
obs OpenTelemetry · Grafana · SigNoz · Sentry
test Playwright · Vitest · testcontainers
data PyTorch · TensorFlow · Pandas · NumPy
reg IEC 62304 · MDR · GDPR · ISO 27001 · SOC 2

PROJECTS

A weather station built around an ESP32 – firmware, MQTT telemetry, Grafana dashboards, 3D-printed enclosure. This CV is a side project too.

OFF THE CLOCK

Scouting – where the hiking and camping come from. Guitar, DIY electronics and 3D printing.

LANGUAGES

- Portuguese (native)
- English (C1, TOEFL)