

# Bernardo António Borda d'Água

FULLSTACK ENGINEER · PLATFORM ENGINEER



## Contact

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📍 Lisbon - Portugal

## Personal

Nationality: Portuguese  
Date of birth: 22.04.1999

## Languages

Portuguese Native  
English Advanced

## Skills

Azure  
Rust  
gRPC  
NodeJS/JavaScript/TypeScript  
React/Next  
Python  
Go  
Docker  
Vue/Nuxt  
C#/.NET  
C  
Java

🌐 bernardobordadagua.com  
🔗 Zizico2  
🌐 bernardo-agua

## ABOUT ME

Fullstack & Platform Engineer based in Lisbon with experience in backend development, DevOps, and cloud infrastructure. Primarily working with Rust, Python, TypeScript, and Go, with a strong foundation in software engineering fundamentals that allows for quick adaptation to new languages and technology stacks. Track record of taking early-stage prototypes to production-ready systems, bridging the gap between Data Science and engineering, and mentoring teams on best practices.

## PROFESSIONAL EXPERIENCE

- 01/2022 **DevOps Engineer**  
04/2022 COLLAB (MULTIVISION CONSULTANT) 📍 LISBON/HYBRID
- 05/2022 **Software Engineer**  
10/2022 LINDE (MULTIVISION CONSULTANT) 📍 LISBON/REMOTE
- 11/2022 **Senior Software Engineer**  
05/2024 LINDE 📍 LISBON/REMOTE
- I worked on various internal projects, providing technical expertise to stakeholders and implementing PoCs.
  - I developed a computer vision pipeline, taking an abandoned PoC to a production-ready product. From a monolithic approach to step-driven micro-services approach, allowing each step to be independently cached and retried, and one step (inference) to run on-prem. This ended up speeding the process 40x, though I had to throttle it to fit our cloud's quotas. I took point on this project, taking on: stack choice, early architecture/iteration, development, CI/CD and deployment. Built with Rust, Python and PostgreSQL, interfacing via gRPC and GraphQL.
  - I collaborated closely with Data Scientists, taking their work (mostly Python) from experimental, ad-hoc pieces of code to deployable PoCs or maintainable production code. I take pride in having introduced best practices to the team, leveraging type hints, relying on Rye, and getting all of our PoCs to be fully self-sufficient Docker images that can be tested across the company.
- 05/2024 **Senior Software Engineer**  
06/2025 CLIMATESEED (HN SERVICES CONSULTANT) 📍 LISBON/REMOTE
- I worked on a backend codebase, that was being migrated from Ruby on Rails to Rust.
  - I worked, briefly, on a Vue frontend.
  - I developed the major features for the backend, and big technical changes (switching http framework, as an example). I also contributed to PR reviews and mentored colleagues who were less proficient in Rust and were less aware of the crate ecosystem.
- 06/2025 **Senior DevOps Engineer**  
09/2025 CETELEM, BNP GROUP (HN SERVICES CONSULTANT) 📍 LISBON/HYBRID

## PROJECTS

### SurgeFlow

OPEN-SOURCE / RUST

- An experimental open-source Rust library aiming to be an alternative to Temporal, Airflow, and Cloudflare Workflows.
- Durable execution engine with adapters for AWS, RabbitMQ, and local development.
- <https://cloud.surgeflow.dev/>
- <https://github.com/SurgeFlowDev/surgeflow>

### aide-axum-typed-multipart-2

OPEN-SOURCE / RUST

- Wrapper around `axum_typed_multipart` to generate OpenAPI documentation via `aide`.

- <https://github.com/Zizico2/aide-axum-typed-multipart-2>
- <https://crates.io/crates/aide-axum-typed-multipart-2>

### **Simple Audio Editor**

PERSONAL PROJECT

- Lightweight client-side audio editor with trimming, volume adjustment and fades.
- <https://simple-audio-editor.bernardobordadagua.com>
- <https://github.com/Zizico2/simple-audio-editor>

### **Simple Image Cropper**

PERSONAL PROJECT

- Client-side image cropping tool supporting freeform aspect ratios.
- <https://simple-image-cropper.bernardobordadagua.com>
- <https://github.com/Zizico2/simple-cropper>

### **Simple Background Remover**

PERSONAL PROJECT

- Client-side background removal tool that processes images locally (no upload).
- <https://simple-background-remover.bernardobordadagua.com>
- <https://github.com/Zizico2/simple-background-remover>

## **EDUCATION**

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### **Computer Science**

FACULDADE DE CIÊNCIAS E TECNOLOGIA - UNL

3 years