

Vasco Nunes

Backend Software Engineer

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Experience

Research Intern

Oct. 2025 – Oct. 2026

ARDITI – Regional Agency for the Development of Research, Technology and Innovation

Portugal

- Built a Python/Streamlit wizard that uses LLMs to transform natural-language business requirements into DISME entity, process, query and executable-rule models.
- Implemented checkpoint-based interviews, structured intermediate representations, JSON Schema constraints and deterministic semantic validation, with human review before DISME import.
- Evaluated the wizard with 20 participants; all completed the guided modelling workflow, and 19 successfully completed the tested end-to-end functional path.

Software Development Intern

Jul. 2024

COB – Cult of Bits

Lisbon, Portugal

- Built React and TypeScript features for a dashboard-based internal product and integrated them with REST APIs.
- Collaborated with the development team on debugging, refactoring and UI performance improvements.

Selected Projects

AnamVis – Patient Communication Platform

2026 – Present

- Designed and implemented a Spring Boot backend that centralises patient-submitted symptoms and images, clinical review, and real-time doctor-patient messaging, with PostgreSQL and Amazon S3 storage through presigned URLs.
- Integrated an OpenAI multimodal model through Spring AI to generate structured pre-triage reports, mapping responses into typed DTOs and validating generated JSON before presenting results to a doctor.

IronBuddy – Fitness Social Platform

2025

- Developed a Spring Boot backend for a gym-focused platform combining social feeds, community forums and friendship management.
- Designed and implemented Gym Crush, with profile recommendations based on preferences and distance, and matching when two users express mutual interest.

Education

NOVA School of Science and Technology

Expected Nov. 2026

MSc in Computer Science and Engineering

Lisbon, Portugal

NOVA School of Science and Technology

2020 – 2023

BSc in Computer Science and Engineering

Lisbon, Portugal

Universidad Autónoma de Madrid

Spring 2023

Erasmus Exchange Semester in Computer Science and Engineering

Madrid, Spain

CESI École d'Ingénieurs

Jul. 2025

Summer School in Generative AI – Certificate of Completion

Nice, France

Sveučilište Algebra Bernays

Jul. 2026

Summer School in Cybersecurity – Certificate of Completion

Zagreb, Croatia

Technical Skills

Programming: Java, Python, SQL

Backend & AI: Spring Boot, Spring AI, REST APIs, JPA/Hibernate, Spring Security, JWT

Data & Cloud: PostgreSQL, Docker, AWS (S3, IAM)

Testing & Tools: JUnit, Mockito, Maven, Git, GitHub, Linux

Languages: Portuguese (native), English (full professional), Spanish (fluent)