

# João Coelho

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## EDUCATION

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### Bachelor of Software Engineering

UNIVERSITY OF MINHO

Set. 2021 - Jul. 2024

### Master of Software Engineering

UNIVERSITY OF MINHO

Set. 2024 - Present

## WORK EXPERIENCE

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### Cesium

CO-DIRECTOR OF CAOS (OPEN-SOURCE DEPARTMENT)

Braga, PT

Oct. 2025 - Present

- Leading the department responsible for all software development activities within the student organization.
- Managing a team of developers to build and maintain open-source projects for the University of Minho community.
- Oversee project planning, task distribution, and technical decision-making across multiple initiatives.

### ENEI (Encontro Nacional de Estudantes de Informática)

TECH TEAM MEMBER

Braga, PT

Oct. 2025 - Apr. 2026

- Contribute to the technical architecture and deployment strategy for Portugal's largest national informatics conference.
- Support systems handling registration and event-day operations for 600+ attendees.
- Collaborate on backend, frontend, and infrastructure decisions to ensure system reliability and scalability.

### Yari Labs

FRONTEND DEVELOPER INTERN

Braga, PT

Jun. 2024 - Jul. 2024

- Engineered responsive UI features for a commercial marketplace using Vue.js, focusing on component reusability and state management.
- Streamlined data flow by collaborating with backend teams to architect and consume RESTful APIs, reducing latency in front-end rendering.

### CoderDojo

PYTHON MENTOR

Braga, PT

Mar. 2024 - Present

- Mentor students aged 7-17 in Python programming within a volunteer-based community coding club.
- Support over 50 students in developing foundational programming skills and problem-solving abilities.

## AWARDS AND ACHIEVEMENTS

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### BugsByte Hackathon 2025

OVERALL WINNER & SINGLESTORE THEME WINNER

Braga, PT

March 2025

Developed "GenieBuy", a GenAI-powered product recommendation engine that won against 15+ teams.

- Built a web application that converts natural language product descriptions into clothing recommendations.
- Scraped e-commerce websites and generated embeddings for thousands of products using large language models.
- Implemented cosine similarity-based vector search to match user queries with relevant products.
- Integrated SingleStore vector database for efficient storage and real-time semantic search with low latency.
- Designed a UI that redirected users to original product pages to increase potential conversion rates.

## SKILLS & INTERESTS

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**AI & Data Science:** PyTorch, LangChain, LangGraph, autogen, Scikit-learn, NumPy, Pandas, LLMs

**Dev Stack:** Python, JavaScript/TypeScript, Elixir/Phoenix, Vue.js, Tailwind CSS, Docker, Git

**Language:** Portuguese (Native), English (Proficient)