



Edgar Araújo

Computer Scientist

📍 Braga, Portugal

edgararaj@gmail.com ⚡ [✉️](mailto:edgararaj@gmail.com)
github.com/edgararaj ⚡ [🔗](https://github.com/edgararaj)
linkedin.com/in/edgararaj ⚡ [🔗](https://www.linkedin.com/in/edgararaj/)
(+351) 919254607 [📞](tel:+351919254607)

SKILLS

Languages

C/C++ Python Haskell
Java PHP JS SQL Alloy

Tools & Frameworks

Git Pandas Next.js React
Laravel Android Studio Qt
MySQL Elasticsearch

Design Tools

Figma Photoshop

LANGUAGES

Portuguese
English

★★★★★
★★★★☆

INTERESTS

- Operating Systems
- High-Performance Computing
- Disaggregated Resources
- Functional Programming
- Formal Verification of Software
- Machine Learning

EDUCATION

BSc in Computer Science

Universidade do Minho ⚡

Sep 2022 – Ongoing

RESEARCH

HPC Resource Usage Analysis

Feb 2025 – Ongoing

Continued work with the HASLab Distributed Storage Research (DSR) ⚡ team, shifting focus to HPC resource analysis by using Elasticsearch and Kibana to identify usage patterns and improve resource allocation efficiency.

User-mode Storage Scheduler

Sep 2024 – Feb 2025

Joined HASLab Distributed Storage Research (DSR) ⚡ team to explore Linux's scheduler architecture. Developed a user-mode storage scheduler in SPDK ⚡ and contributed to designing efficient storage systems for low-latency, high-throughput applications.

WORK EXPERIENCE

Freelance Web Developer

May 2023 – Sep 2024

Designed and developed 2 e-commerce websites for small businesses using Laravel, managing projects end-to-end including client consultation, design, development, and post-launch support.

CIEC UMinho ⚡

Jun 2023 – Aug 2024

Upgraded an outdated SQL Server database to MySQL, streamlined its structure and improved performance, then built a custom Laravel Nova admin panel to provide users with an intuitive management interface.

Semana da Ciência e Inovação ⚡

Dec 2023 – May 2024

Contributed to website development by designing the interface in Figma and implementing event scheduling features using Next.js.

PROJECTS

Linux-Based Task Orchestrator

2024

Developed as part of the Operating Systems course, this project involved designing a parallel task orchestration service in C using pipes for inter-process communication, enabling concurrent client interactions with a central orchestrator. Final grade: 19/20.

HACKATHONS

BugsByte – 2nd Place 🥈

2025

Participated in the development of a LangChain AI agent for Continente's chatbot to provide smart product recommendations. Processed and optimized Continente's product database using Python and Pandas to ensure seamless AI integration.

Aveiro Tech City

2024

Participated in a hackathon to develop a solution for managing energy loss in smart heatpump systems. Although the project didn't achieve all its objectives, it provided valuable experience in data processing and analysis.