Daniel **Pereira**

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First year computer science and engineering masters student looking for a position where I can utilize my skills, problem-solving abilities, and expand on my knowledge

Education

Bachelors of Engineering in Computer Science and Engineering University of Minho, Braga

2021 - 2024

Portugal

· Course: Database Systems | Computer Networks | Web Engineering | Distributed Systems | Algorithms and Data Structures

Masters of Engineering in Computer Science and Engineering

2024 - Present

University of Minho, Braga

Portugal

Experience

Research Assistant

Jul 2024 - Present

Distributed Storage Group @ HASLab

Braga, PT

- · Conducted research on resource disaggregation for LSM Tree key-value stores, focusing on improving scalability and storage efficiency
- Studied existing implementations of disaggregated storage and compute solutions for LSM Tree architectures
- Modified and extended RocksDB by implementing and testing experimental middleware solutions aimed at optimizing remote storage
- · Evaluated performance impacts, bandwidth utilization, and scalability effects through benchmarking and profiling



Jul 2023 - Sep 2023

Braga, PT

- Developed new features and tests to the SAST product by providing support for new language syntax features in a C# environment
- Integrated an agile development team
- Experienced a production development pipeline

Mentor & Responsible of Technology CoderDojo Braga

Sep 2023 - Sep 2024

- Developed, maintained and deployed the CoderDojo Braga web platform with a REST API written in Elixir and Phoenix and a front end developed in Next.js
- · Wrote software tests for the backend
- · Performed code reviews for new features
- Mentored young individuals aged 7-17 in programming

Co-Director

Sep 2022 - Sep 2024

Braga, PT

CeSIUM (Software Engineering Students Association of UMinho)

- Integrated a team of 5 elements developing, maintaining and deploying multiple open source repositories
- Worked on full-stack repos written in Elixir and Phoenix LiveView
- · Hosted the CeSIUM Periférico podcast
- · Organized workshops, activities, and managed a team of volunteers in the Pedagogical Department
- Led the successful implementation of CodeWeek 22' to onboard new students

Projects_

BugsByte Hackathon 2024 CeSIUM

Nov 2023 - Apr 2024

Braga, PT

Was a general organizer of the BugsByte Hackathon 2024

- Managed a budget of thousands of euros
- Coordinated cross-functional teams to execute various aspects of the hackathon
- Increased the event's size by two times compared to the previous year
- · Worked alongside Uphold as the main sponsor of the event
- Fully developed the <u>BugsByte Hackathon website</u>

Skills_

Tech Stack Elixir | Golang | C/C++ | Java | Python | Haskell | SQL (Postgres, MySQL) | RocksDB

Tools Git | Docker | K8s

Languages Portuguese (fluent) | English (fluent) Personal Interests Jiu Jitsu | Cello | Reading

Daniel Pereira Curriculum vitae