


# Simão Pedro Sá Cunha


2<sup>nd</sup> year MsC Software Engineering Student

Date of Birth: January 7<sup>th</sup>, 2001

Location: Vila Nova de Famalicão - Braga, Portugal

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## EDUCATION

### •Informatics Engineering (Integrated MsC)

*University of Minho, Braga, Portugal*

2019 - Present

### •Basic and Secondary Education

*Escola Cooperativa Vale S. Cosme - Didáxis, Vila Nova de Famalicão, Portugal*

2012-19

## WORK EXPERIENCE

### •Summer Internship

*Bosch Portugal*

*Jul - Sep 2023*

Braga, Portugal

- Applied machine learning and deep learning techniques to develop a system for detecting delaminations.
- Implemented machine learning models using Python libraries such as Scikit-learn (Sklearn) and deep learning models using Deep Learning Halcon by MVTEC to build robust detection algorithms.
- Conducted image processing tasks using Halcon from MVTEC to enhance data preprocessing.
- Contributed to internal software development projects.
- Gained foundational knowledge in computer vision.

### •Summer Internship

*Accenture Portugal*

*Jul - Aug 2022*

Braga, Portugal

- Introduction to Google Cloud Platform.
- Data Fusion instance creation and JSON file upload with a customized pipeline configuration in a Cloud Build file written in YAML.
- Agile Scrum Methodology applied in the entire internship.

## LANGUAGES

**Portuguese:** Native

**English:** C1 - Advanced

## SKILLS

**Programming Languages:** C, C++, Java, JavaScript, Python, Haskell, Prolog

**Frameworks:** React Native

**Web Development Tools:** Node.js, VSCode, Git, GitHub

**Cloud and DevOps:** Google Cloud Platform, Firebase, Docker, Ansible

**Databases:** SQL, MySQL

**Business Intelligence:** Microsoft PowerBI

**Areas of Interest:** Large Language Models, Machine Learning, Green Software, Image Processing, Computer Vision

## ACTIVITIES

### •Cerciras Training School 2024

*Cerciras - Connecting Education and Research Communities for an Innovative Resource Aware Society*

*Aug 2024*

Klagenfurt, Austria

### •1st UMinho Research & Innovation Open Days 2024

*University of Minho*

*Jan 2024*

Braga, Portugal

### •Sustainable Summer School 2023

*University of Coimbra*

*Jul 2023*

Coimbra, Portugal

## PUBLICATIONS

- Simão Cunha, Luís Silva, João Saraiva, and João Paulo Fernandes. 2024. **Trading Runtime for Energy Efficiency: Leveraging Power Caps to Save Energy Across Programming Languages.** *Proceedings of the 17th ACM SIGPLAN International Conference on Software Language Engineering (SLE '24)*, October 20–21, 2024, Pasadena, CA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3687997.3695638>
- Luís Maia, Marta Sá, Inês Ferreira, Simão Cunha, Luís Silva, Paulo Azevedo, and João Saraiva. 2024. **On the Impact of PowerCap in Haskell, Java, and Python.** *RAW'24: 3rd Workshop on Resource Awareness of Systems and Society*, July 02–05, 2024, Maribor, SI.

## CERTIFICATES

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### •1st UMinho Research & Innovation Open Days 2024 - Pitch and Poster Session

*University of Minho*

*Jan 2024*

Braga, Portugal

- Pitch Session Certificate
- Poster Session Certificate

### •Sustainable Summer School 2023 - Students Workshop and Poster Session

*University of Coimbra*

*Jul 2023*

Coimbra, Portugal

- Attendance Certificate
- Students Workshop and Poster Session Certificate

### •English C1

*BabeliUM*

*Oct 2021*

Braga, Portugal

- Certificate