Simão Pedro Sá Cunha

2nd year MSc Software Engineering Student

Date of Birth: January 7th, 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**   *Jul - Sep 2023*
Bosch Portugal   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**   *Jul - Aug 2022*
Accenture Portugal   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**   *Aug 2024*
Cerciras - Connecting Education and Research Communities for an Innovative Resource Aware Society   Klagenfurt, Austria

•**1st UMinho Research & Innovation Open Days 2024**   *Jan 2024*
University of Minho   Braga, Portugal

•**Sustrainable Summer School 2023**   *Jul 2023*
University of Coimbra   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

•1st UMinho Research & Innovation Open Days 2024 - Pitch and Poster Session   *Jan 2024*
University of Minho   Braga, Portugal

- Pitch Session Certificate
- Poster Session Certificate

•Sustrainable Summer School 2023 - Students Workshop and Poster Session   *Jul 2023*
University of Coimbra   Coimbra, Portugal

- Attendance Certificate
- Students Workshop and Poster Session Certificate

•English C1   *Oct 2021*
BabeliUM   Braga, Portugal

- Certificate