



Bernard Ambrosio Georges

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● EDUCATION & TRAINING

2020 - 2025 - BRAGA, PORTUGAL

BACHELOR AND MASTERS IN COMPUTER ENGINEERING- UNIVERSITY OF MINHO

Website: <https://www.uminho.pt/PT>

2024 - 2025 - MUNICH, GERMANY

ERASMUS MASTER DEGREE IN COMPUTER ENGINEERING- LUDWIG MAXIMILIAN UNIVERSITY OF MUNICH

The objective of this thesis is to optimize the **Pairwise Difference Learner** algorithm, an approach that constructs learning datasets by focusing on the differences between data points rather than the data points themselves.

Thesis: Optimizing the Architecture of the Pairwise Difference Learning Classifier | **Website:**

<https://www.lmu.de/de/index.html>

● LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1
GERMAN	A1	A1	A1	A1	A1

● SKILLS

Hardskills

numpy | matplotlib | Go lang | SQL | Tensorflow | Linux | pandas | Git | PostgreSQL and MariaDB | Python | Java | C | scipy | Docker | pytorch | Machine Learning | raspberryPI | Deep Learning | scikit-learn | Bash | MySQL | C++

Softskills

self learning | problem simplification | communication | adaptability | Proactive and hands on | Strong Time Management | Quick-learning | Ability to work in a team and autonomously | Leadership, Critical thinking and Emotional Intelligence | organized and used to working under stress and with reduced times

● WORK EXPERIENCE

06/2023 - 09/2023 - LISBON, PORTUGAL

FULL STACK DEVELOPER PREMIUM MINDS

Design and development of a full-stack time logging system from scratch, time tracking application that enables employees to log work hours, track tasks, and generate usage reports.

Tech Skill:

- **Frontend:** Next.js, React, CSS Modules
- **Backend:** Java and PostgreSQL

Soft Skills: Self-learning, adaptability, Effective communication in a team environment, Proactivity and ownership of project development, Working under real-world pressure, Understanding and applying Agile methodologies and Management of both individual responsibilities and collaborative efforts.

● NETWORKS AND MEMBERSHIPS

01/2023 - 09/2025 Braga, Portugal

IEEE - UMinho Student Branch A university-based organization dedicated to advancing technology by fostering collaboration within the engineering school.

I began my involvement as a member of the Program Committee, where I was responsible for helping organize external workshops and events. Later, being invited to join the presidential group of the same committee.

Soft Skills: Adaptability, member and auto-motivation, decision-making, conflict management, critical Thinking, time Management, Public Speaking, Problem solving, and event logistics and organization.

Links <https://um.ieee-pt.org/>

15/09/2023 - 15/06/2024 Braga, Portugal

Coder Dojo CoderDojo is a global volunteer-led community of free programming clubs for young people. It aims to foster creativity and digital literacy by teaching coding in a fun and collaborative environment. As a mentor, I guided young learners through the basics of programming, supporting them in developing projects using Python.

Soft Skills: Problem solving, problem explanation, problem simplification and mentorship skills.

Links <https://coderdojobraga.org/>

● PROJECTS

RaspberryPI Project A university project that integrates pressure sensors into a doormat, enabling secure, gesture-based inputs.

All data is transmitted via analogue signals to a central unit located inside the home, minimizing the risk of remote interception. The system is not directly connected to the internet, instead relying on the existing smart home network (e.g., Home Assistant) for secure operation.

Tech Stack: Micropython, RaspberryPI, sensors and Homeassistant

Links <https://github.com/BernardGeorges/Sketching-with-hardware/tree/main>

System Architecture University Project University project focused primarily on **backend development and system architecture**, with the goal of building a scalable, multi-layered application that supports the creation and application of online tests. The main goal was to **the creation and programming of an application architecture** with a strong emphasis on backend logic and service separation.

Tech Stack: JavaScript / Node.js, CSS, Python/Django.

Links <https://github.com/BernardGeorges/RAS>