DIOGO BASTOS

Master's in Biomedical Engineering

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EXPERIENCE

Functional Analyst / Programmer (Jun 2025 - Ongoing)

Banco BPI - CaixaBank Group

- One of Portugal's leading banks, I work on the final layer of the BPI Net Bolsa platform — the bridge between the bank and the stock market.
- My role involves ensuring the reliability of trading flows, engaging with external financial entities, and staying aligned with evolving regulatory frameworks and market structures.

EDUCATION

M.Sc. in Biomedical Engineering (2022 – 2024)

Faculty of Engineering of the University of Porto (FEUP)

- Final Grade: 17.13/20

English course abroad (2021 – 2022)

EF Education First

- Final Level: B2.2

B.Sc. in Biomedical Engineering (2018 – 2021)

Porto Higher Institute of Engineering (ISEP)

- Final Grade: 14.24/20

CERTIFICATES

AWS Certified Solutions Architect – Associate

Amazon Web Services (AWS)

May 2025 - Expires May 2028

- Equips me with the ability to design scalable, resilient, efficient, and fault-tolerant cloud architectures that meet customer requirements following AWS best practices.

PUBLICATIONS

Books

- D. R. Bastos and J. M. R. Tavares, *Advances in Gait-Based Identification: A Systematic Review of Deep Learning Models Leveraging Computer Vision Techniques.* Springer Cham, 2025. DOI: 10.1007/978-3-031-89560-9.

Journal Articles

- D. R. Bastos and J. M. R. Tavares, "A scalable gait acquisition and recognition system with angle-enhanced models," *Expert Systems with Applications*, vol. 269, p. 126 499, 2025, ISSN: 0957-4174. DOI: 10.1016/j.eswa.2025.126499.

PROFILE

Engineer specialized in programming with expertise in Python, C++, Java, and web/mobile development. Experienced in databases, Agile methodologies, and system integration. Focused on building efficient, high-quality solutions with a problem-solving mindset and attention to detail.

MOST PROUD OF

Maximum grade of 20/20 on final M.Sc. Dissertation.

SKILLS

Critical Thinker | Goal-Driven | Technologically Proficient | Adaptable

Artificial Intelligence | Computer Vision | Deep Learning | Software Development

PROGRAMMING

Strong Experience with:

C & C++ | HTML, CSS & PHP | Java | Python | SQL | MySQL/SQLite | AWS

Sufficient Experience with:

Matlab | R | Firebase

LANGUAGES

Portuguese (native) ●●●●●

English ●●●◐○

VOLUNTEER WORK

Firefighter (2015 – 2022)

Lixa Volunteer Firefighters

- Promotion to third-class firefighter in 2020.

Association Leader (2019 – 2021)

Student Association of ISEP

- Member of the Career Opportunities Department, focused on enhancing student-job market relations.