

# Bernardo Dias

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## SUMMARY

Experienced in software engineering and AI, specializing in Web API integration, machine learning, and computer vision. Proven ability to deliver impactful solutions and collaborate effectively across diverse teams. Passionate about leveraging technology to solve real-world challenges.

## EXPERIENCE

**Software Developer** **Funchal, Portugal (Hybrid)**  
*Connecting Software* 01/2024 - Present

- Designed and implemented C# connectors to integrate external Web APIs with SQL, enhancing data accessibility and efficiency.
- Developed an intelligent code generation tool using Python, C#, and LLMs, automating API-based workflows.
- Built a scalable web scraper for API documentation using LLMs, improving developer productivity.
- Ensured robust code quality through comprehensive unit and integration testing.
- Delivered a universal web scraping solution supporting diverse API formats.

**Data Scientist** **Santa Cruz, Portugal (Hybrid)**  
*Tracer* 02/2023 - 12/2023

- Fine-tuned deep learning models for computer vision, achieving 80% accuracy in detecting patent infringements across billions of images.
- Created a generative AI pipeline to produce synthetic datasets, enhancing model performance.
- Streamlined workflows by automating processes with REST APIs and optimizing datasets using SQL.
- Delivered actionable product designs and implementation strategies to stakeholders.
- Enhanced productivity through workflow automation.
- Improved data quality and model efficiency in large-scale projects.

**Research Intern** **Semenyih, Malaysia (Remote)**  
*University of Nottingham Malaysia* 08/2021 - 01/2022

- Developed a desktop application using Python and Qt, delivering a user-friendly interface for image processing tasks.
- Designed and fine-tuned machine learning models for image analysis using computer vision techniques.
- Automated workflows by integrating REST APIs, simplifying image management.
- Delivered a fully functional application tailored to user requirements.
- Improved image processing accuracy and workflow productivity.

## EDUCATION

**(BEng) Software Technology Engineering** **Horsens, Denmark**  
*VIA University College* 08/2019 - 01/2023

- Mastered programming languages such as Java, C#, C, Python, and Assembler, with a focus on responsive web design, client/server systems, heterogeneous systems, and IoT solutions.
- Developed skills in mathematics, algorithms, system architecture, and database development.

## SKILLS

- Programming Languages:** Python, C#, Java, C, SQL, JavaScript, Assembler
- Software Development:** Web API Integration, RESTful APIs, Desktop Applications, Agile Methodologies, Unit Testing, Code Automation, Git
- Tools & Frameworks:** PyTorch, TensorFlow, Qt, NUnit, Docker

## LANGUAGES

**Portuguese** - Native  
**French** - Professional (B2)

**English** - Fluent (C2)  
**Spanish** - Professional (B2)