

Bernardo Dias

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SUMMARY

Experienced in software engineering and data science, specializing in Web API integration and machine learning. Currently learning Go while seeking remote software engineering roles.

EXPERIENCE

Software Developer **Funchal, Portugal**
Connecting Software 01/2024 - 10/2024

- Designed and implemented C# plugins 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 universal web scraper for API documentation using LLMs, improving developer productivity.
- Established Azure CI/CD pipeline with unit and integration testing to ensure code quality.

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

- Fine-tuned deep learning models for computer vision, achieving 80% accuracy in detecting patent infringements across billions of images.
- Used Amazon Web Services (AWS) to train the models and store data using S3.
- 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.
- Improved data quality and model efficiency in large-scale projects.

Research Intern **Remote**
University of Nottingham 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, using Google Cloud Platform (GCP) to train them.
- 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 JavaScript focusing on responsive web design, client/server systems, heterogeneous systems, and IoT solutions.
- Developed skills in mathematics, algorithms, system architecture, and database development.
- Studied for one semester at the University of Malta as part of the Erasmus+ program.

SKILLS

- Programming Languages:** Python, C#, Java, Go, C, SQL, JavaScript
- Software Development:** Web API Integration, RESTful APIs, Desktop Applications, CI/CD, Unit Testing, Agile
- Machine Learning & AI:** PyTorch, TensorFlow, Computer Vision
- Cloud & DevOps:** Docker, AWS, GCP, Azure

LANGUAGES

Portuguese - Native
French - Professional (B2)

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