

André Picado

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About Me

Interested in software and product development, AI-driven decision making, and machine learning solutions. Master's degree in machine learning and data science with research in recommendation systems. A goal-oriented team player known for commitment, innovative thinking and open-minded collaboration.

Experience

Software Engineer & Team Leader, Banetech March 2024 – October 2024

- Was involved in the **creation and development** of 3 **products**, a **live monitoring** application with integrated notifications, an **AI application** for service and infrastructure management and a customized **migration pricing calculator**.
- Became a **Scrum Master** and **leader** of a 5 person team responsible for the frontend development of all products. While in this role I welcomed and **mentored** 4 new developers.
- **Managed communications** with a **client** in the banking industry helping identify their needs and providing fast feedback and delivery.
- **Lead** product management **meetings** to discuss new features and the latest development status.

Software Engineer, Banetech October 2021 - March 2024

Banetech offers **services** and **products** related with high performance **integration platforms**.

- **Full stack developer** working on an existing product related with Enterprise Architecture, providing real time information using an **Event Driven Architecture**. The tech stack included Angular with TypeScript, Node, MySQL databases and git.

Education

Master of Science - Computer Science and Engineering September 2020 - July 2022

Instituto Superior Técnico - Universidade de Lisboa

- Master's Degree with a specialization in **Machine Learning** and **Data Science**, having done a master's thesis that involved research and development of **recommendation systems**, **content extraction** from learning resources and **student temporal profiling**.
- Published thesis related articles on **IEEE International Conference on Data Mining Workshops** and **INForum**.

Bachelor of Science - Computer Science and Engineering September 2017 - July 2020

Instituto Superior Técnico - Universidade de Lisboa

- Bachelor's Degree with a special interest in linear algebra, calculus, data structures, algorithms, databases, software engineering, distributed systems.

Side Quests

- Implemented and deployed a **language detection model** using Scikit-learn, and FastAPI. **Containerized** the application with Docker and **deployed** it on Heroku, transitioning from a Jupyter Notebook prototype to a scalable, production-ready solution.
- Developed a **photo uploading app** allowing authenticated users to upload photos, view their complete gallery, and inspect individual photos in detail. Using React and Next.js for the frontend. The app was **deployed** on Vercel and integrated with Clerk for user authentication and management, PostHog for analytics, and Sentry for error monitoring.
- Created a **URL shortener service** using Go, featuring **concurrent processing** for URL shortening and lookup with goroutines and channels to handle high-load scenarios. Integrated PostgreSQL for **persistent data storage** and Redis for **caching**, optimizing response times.

Volunteering

Banco Alimentar Contra a Fome

- Assisted in gathering and organizing food items for Lisbon's largest food shelter

Corações Com Coroa

- Helped disassemble and package hospital equipment from a decommissioned Portuguese hospital that was then sent to Guiné-Bissau.
- Sold entries at the door of a charity concert event and helped explain the organization and purpose of the donations to guests.

Skills

Technologies: Angular, Node, Git, TypeScript, Python, SQL, Go, PyTorch, Scikit-Learn, D3, React, Next, Docker, Scrum

Languages: Portuguese (native), English (C2)

Hobbies

Triathlon, Surfing, Reading, Bouldering, Dogs