Andres Monge - Technical Lead / Solutions Architect

Technical lead and solutions architect specializing in **back-end development, functional paradigms, and MLOps**. As a **hands-on leader**, I solve complex problems and deliver value through **technical excellence, empathy, and mentorship**.

Currently exploring **Gleam** to deepen my understanding of **functional programming**, which enables **fast, safe, and concurrent code**. While maintaining my role as a **solution architect with Python expertise**, I'm committed to growth through the discipline of functional programming.

SHIFTING TO PYTHON AND AI

Python Technical Lead *Origen, Madrid, Spain (2024) (presently)*

- **Responsibilities:** Led the team with strict adherence to high-quality code guidelines, ensuring maintainable and scalable solutions; mentored and guided two peers, fostering a collaborative environment and driving team performance.
- **Accomplishments:** Successfully created an ad-hoc data management solution, resulting in a monthly cost savings of $2,000; fully refactored the platform from a non-maintainable state to a PEP8 compliant, well-documented, and guideline-driven architecture.
- **Technologies:** Python, Kubernetes, Bash, SQL, Docker, Numpy, Pandas.
- **Personal Growth:** Gained deeper insights into AI team workflows, understanding their expectations and limitations; developed effective communication skills to provide solutions that enhance their performance; refined my ability to lead AI and Machine Learning teams, bridging my managerial background with technical expertise in AI development.

Python Technical Lead *Babiopower, California, USA (remote) (2023-2024) (freelance)*

- **Responsibilities:** Built the company software to generate a solar panels installation proposal; Managed the team to build the front-end application and help in the back-end.
- **Accomplishments:** Built the entirety of the system using Python, MongoDB, and Docker images; Mentored and guided two more developers.
- **Technologies:** Python, FastAPI, Pydantic, MongoDB, Docker.
- **Personal Growth:** Deepened expertise in Python and FastAPI, gained valuable experience in machine ops AI.

Machine Learning Engineer *Delorean group, Mexico city (remote) (2023) (freelance)*
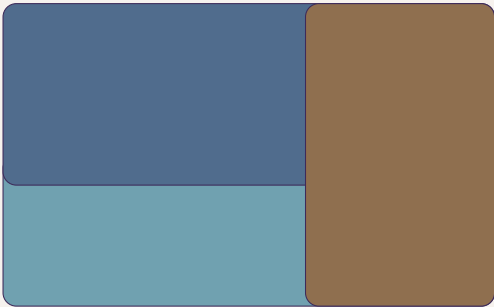
- **Responsibilities:** Built a Convolutional Neural Network (CNN) that identified landmarks for a small tourism company.
- **Accomplishments:** Developed a CNN model that accurately identified and classified various landmarks, enhancing the company's tourism offerings and customer engagement.
- **Technologies:** Python, PyTorch, and Transformers.
- **Personal Growth:** Applied Python and AI skills in a real-world context, deepened expertise in these areas, and demonstrated the practical value of AI in enhancing business operations.

Front-end Team Lead *Bonial / Kaufda.be, Berlin, Germany (2017)*

- **Responsibilities:** Developed Micro-fronts using Polymer for the UI of an AI training system; Created an infinite undo/redo global interface and a hyper-fast UI tag autocomplete using local storage for optimization.
- **Accomplishments:** Developed a tag component that was incredibly fast by using a double cache system; Created a grid splitter directly into the AI tool, which accelerated the selection of sections by 300x.
- **Technologies:** Polymer, AI.
- **Personal Growth:** Gained valuable experience in AI and developed proficiency in Polymer.

"Empowering teams to build innovative solutions with a focus on value and efficiency."

- 40% Architectural investigation and spikes
- 30% Feature development and bugs fixing
- 30% Tasks definition, refinment and planning

Software Languages

Python	●●●●○
DevOps	●●●○○
Databases	●●●●○
Bash	●●●●○
pytorch	●●○○○
numpy	●●○○○
JavaScript	●●●●○
CSS/HTML	●●●●○

Spoken Languages

- Spanish (Mother Tongue)
- English (Bilingual - C1)

LEADERSHIP - TECH LEAD AND MANAGER

Senior Engineering Manager *Lavanda, united kingdom (remote) (2022 - 2023)*

- **Responsibilities:** Served as a line manager for two squads; Coordinated with the CTO and CPO to design and develop features to alleviate customer churn.
- **Accomplishments:** Managed a team of 10 software engineers; Created an efficient algorithm to allocate randomized bookings with range and date constraints.
- **Technologies:** Python / Ruby on Rails.
- **Personal Growth:** Enhanced skills in managing a team and developed proficiency in Python and Ruby on Rails.

Senior Engineering Manager *Global Savings Group, Germany (remote) (2021 - 2022)*

- **Responsibilities:** Managed a team of 7 software engineers; Kept the legacy code and systems active and clean of critical bugs, while participating in the discovery and planning of a company-wide code refactoring.
- **Accomplishments:** Designed and developed a web-crawler that saved the company 500€ weekly costs.
- **Technologies:** JavaScript, Python, HTML, (TS) React.
- **Personal Growth:** Gained valuable experience in remote management and developed proficiency in solutions architecture.

Technical Lead / Software Architect *GFT / Santander Global Tech, Madrid, Spain (2018 - 2021)*

- **Responsibilities:** Served as a technical coordinator and solutions architect for development teams; Investigated new technologies and methodologies to accelerate delivery times and increase overall quality.
- **Accomplishments:** Designed a solution to generate documentation and dependency hierarchy automatically; Proved increase of 120go-to person for any DevOps and pipeline enhancement in the project, and led two USA teams to perform twice as better by creating better tools and guiding the team into knowing and using such tools.
- **Technologies:** Angular, JavaScript, Python scripting, bash, UML-Diagrams.
- **Personal Growth:** Enhanced my skills in team coordination and solutions architecture.

WEB DEVELOPER

Team Lead / Developer *S|NGULAR / BBVA, Madrid, Spain (2013 - 2017)*

- **Responsibilities:** Mentored developers to implement modules and components, instead of jQuery; Participated in the construction of the CD/CI with GULP and git-flow; Developed an Angular component hosting a ReactJS module.
- **Accomplishments:** Successfully developed an Angular component hosting a ReactJS module.
- **Technologies:** Angular, ReactJS, jQuery, GULP, git-flow.
- **Personal Growth:** Enhanced my skills in mentoring and leading a team, and developed proficiency in Angular and ReactJS.

Developer / Architect *Adesis (GFT), Madrid, Spain (2012 - 2013)*

- **Responsibilities:** Led the creation of robust software for the insurance sector, developing architectural components using front-end skills and leading with backend skills; Developed a personal finance manager app using AngularJS and led a NodeJS (Sails) developer.
- **Accomplishments:** Successfully developed a personal finance manager app and led a NodeJS developer.
- **Technologies:** AngularJS, NodeJS (Sails).
- **Personal Growth:** Gained valuable experience in front-end architecture and developed proficiency in AngularJS and NodeJS.

Developer *C.B.I., Madrid, Spain (2010 - 2012)*

- **Responsibilities:** Developed end-to-end modules using BackboneJS and PHP for an ad-hoc SAP-like system.
- **Accomplishments:** Created a unique plugin for data import/export from XLS into SQL, parsing the data according to the system architecture and schemas.
- **Technologies:** BackboneJS, PHP, WordPress.
- **Personal Growth:** Enhanced my skills in client interaction and project management.

Freelance Developer *Madrid, Spain (2008 - 2013)*

- **Responsibilities:** Developed custom websites for international clients using open-source back-end frameworks and vanilla front-ends; Created ad-hoc themes and plugins to provide tailored tools for clients.
- **Accomplishments:** Successfully delivered multiple websites including Universidad Rey Juan Carlos.
- **Technologies:** Joomla, WordPress, Drupal, OsCommerce, PHP.
- **Personal Growth:** Gained valuable experience in client interaction and developed proficiency in various CMS and e-commerce platforms.