

Francisco Figari - Buenos Aires based computer scientist

Resume - October of 2025

- Builder

- Ability to approach open-ended problems and create practical implementations.
 - * Implementation of a web-based **eye-tracking** tool to study its feasibility for remote clinical trials.
 - * Development of a procedural generator for affordable multi-family housing adhering to strict urban planning codes.
 - * Research on the feasibility of applying simulation mechanisms to embedded system development.
 - * General understanding of the **fintech** world, particularly investment-related aspects.
- Capable of working within medium-scale microservice (**ms**) ecosystems.
 - * Maintenance and integration of new **ms** into the network, both consumers and producers.
 - * Implementation of new features spanning multiple **ms**.
 - * General knowledge of tracing and monitoring tools (e.g., **Datadog**).
 - * Scope: 10 services, with the largest handling 200 requests per second during market hours.
- Skilled in translating problems described in natural language into formal representations.
- Ability to scale codebases, perform refactoring, and decompose complex function flows into smaller, manageable subflows.
- General understanding of multiple programming paradigms: object-oriented, procedural, functional, and event-oriented.
- Fluent in multiple programming languages: **Golang**, **Python**, **C++**, **Javascript**.
- Designs with computational complexity in mind (Big-O notation).
- Capable of presenting ideas clearly and concisely, following formats similar to scientific papers.
- Skilled in defining interfaces that involve multiple technologies (e.g., backend-to-mobile communication).
- Capable of designing software flows based on HTTP resources.
- General knowledge of data persistence technologies (**PostgreSQL**, **Redis**).
- Conscious and effective use of **git** in development workflows.
- General understanding of **Unix** systems.
- Uses AI agents to accelerate development processes.

- Technical Manager

- Ability to simultaneously articulate technical and product needs into a coherent vision without losing the specificity of each domain.
- Skilled in planning development projects and breaking them down into small, deployable steps that prioritize delivery.
- Capable of conducting discovery phases to assess the feasibility of new feature implementations.
- Experienced interdisciplinary collaborator: worked with urban planners, architects, neuroscientists, researchers, as well as frontend and backend developers.
- Leadership experience managing small development teams (2 to 3 developers).
- Familiar with agile methodologies such as Kanban and Scrum.
- Native Spanish speaker with advanced French (schooling) and advanced English (intermediate speaking).

- Mentor

- Capable of reviewing pull requests with attention to code quality.
- Experienced in evaluating practical assignments with emphasis on clarity of idea presentation.

- Ability to teach numerical methods.
 - Ability to conduct yoga classes.
 - Capable of guiding meditation sessions.
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- Work History

- Senior software engineer @ *Urbanly* since Jan 2025.
- L4 backend engineer @ *Brubank* from Jan 2025 to August 2025.
- L3 backend engineer @ *Brubank* from Apr 2023 to Jan 2025.
- Research intern @ *DC, FCEyN, UBA* between August 2021 and September 2022 under scholarship program for initiation in research. Work done around thesis project.
- Fullstack programmer @ *DubbingDigital* between March 2021 y December 2021.
- Lead programmer @ *UrbanSim* between July 2018 y November 2020.
- Research intern @ *ARSLab, Carleton University* between February and June of 2018.
- Teaching assistant in the Numerical Methods course @ *DC, FCEyN, UBA*, 4 semesters between 2016 y 2018.
- Freelance programmer @ *LIAA, FCEyN, UBA* at the end of 2017.
- Junior programmer @ *Eryx* during 4 months at the beginning of 2016.
- Kitchen helper and waiter @ *La Capelina, San Fernando* during summers of 2012 and 2013.

- Education

- Yoga teaching training program @ *Red Prisma* between July 2023 and April 2025.
- *Licenciatura* in Computer Science @ *DC, FCEyN, UBA*, equivalent to Bachelor + Master with thesis, started in 2013 and finished in 2022.
- High school @ *Licée Jean Mermoz, Buenos Aires*, finished in 2013.