

Fernando Tula

Professional Profile

Senior Backend/Developer, Full Stack Developer-System Analyst, and Instructor (with over 30 years of experience). Extensive experience in software architecture, database design, and web development. Specialized in React, Node.js, PHP, Python, and MySQL, applying design patterns and clean code practices. Experience in UI/UX (Figma, Adobe XD) and in integrating resilient and innovative solutions.

Relevant Experience

- **Multibackend Full Stack Project (2025)**
Development of a React frontend capable of working with multiple backends (PHP, Node.js, and Python) using an adapter pattern with automatic fallback. Key innovation: complete front/back decoupling and fault resilience.
- **Title II TULA (2005–2025)**
Analysis, architecture and development of applications: accounting management systems, medical administration, lotteries, web platforms and online services. Work with legacy software (update and optimization).
- **Profarma (2003–2005)**
Development of a print spooler for fiscal printers and adapters between Unix and Windows systems.
- **Independent Projects (1989–2025)**
Systems development and consulting in multiple technologies (VB, C, PHP, Node.js, Python). Innovations in fiscal printer integration and data loading optimization (early implementation of techniques similar to lazy loading). UI design for a home emergency app.
- **Teaching (1991-2025)**
Programming Professor.
Secondary, Tertiary, and University Levels.
Design and implementation of programming curricula.
Training for teachers and professionals in current technologies.
Pedagogical methodologies adapted to different age levels.
University extension courses for graduates and advanced students.
I combine solid technical experience with a passion for teaching to develop innovative solutions and train new generations of programmers .

Education and Training

- Systems Analyst – General Urquiza School (1998)
- Recent courses: React (2024), Node.js (2023), Python (2023), UX/UI, Design Thinking, Storytelling, Digital Marketing (2024), Advanced UI (2025), Video Games (2025)
- Currently: Bachelor's Degree in Biotechnology – National University of Rosario.

Technical Skills

Languages:

- HTML/CSS/Javascript (Since 2005)
- React, Node.js (Since 2023)
- PHP (Since 2015)
- Python (Since 2023)
- Visual BASIC, TurboC, C#, SQL (Since the late 90s)

Databases:

- Currently=>MySQL (advanced).
- Previously => MS SQL Server.
- Microsoft Access (ADO db), Some projects=>MongoDB.
- Schema design, Query optimization, Stored procedures, Normalization.

Frameworks/Tools:

- Laravel.
- Figma.
- Adobe XD.

Miscellaneous:

- Concepts: n-tier architecture.
- Design patterns.
- UI/UX.
- System resilience.
- Basic testing tests (Jest or Vitest).

Languages

- Spanish: native
- English: technical (reading and documentation), conversational (in progress).

References

- https://www.instagram.com/ftula_desarrollo/
- <https://github.com/IITFernando>
- <https://www.linkedin.com/in/fernando-tula/>