

SERGIO SABATER RUIZ

Full-Stack & AI Engineer | Voice AI & Automation | Alntegra Co-Founder

Valencia, Spain · Open to Remote Globally · B2 English

sabaterruiz@gmail.com · +34 722 733 036

Portfolio · LinkedIn · GitHub

SUMMARY

Full-Stack & AI Engineer with hands-on experience building AI-powered products, automation systems and applied machine learning solutions across NLP, computer vision and security-focused use cases. Co-founder of an accessibility-driven AI startup, with experience taking products from concept to validation through international bootcamps, datathons and startup ecosystems. Strong interest in voice AI, human-computer interaction and production-grade AI tools. Experienced in building project artifacts, prototypes and demos that showcase end-to-end problem solving across AI, backend, frontend and product design.

Technical strengths: AI product prototyping · Backend APIs · LLM applications · Voice/text interfaces · Accessibility-first UX · Startup execution

EXPERIENCE

Co-Founder & CTO / AI Product Engineer - Alntegra Limited

Valencia, Spain | 2023 - Present

- Co-founded an AI startup focused on accessibility, automation and inclusive human-computer interaction.
- Led software and AI product development as CTO / Head of Software, turning early-stage ideas into functional prototypes and technical demos.
- Built AI-powered assistants combining voice/text interaction, task automation and accessibility support.
- Developed backend services and product prototypes using Python, APIs and database-driven architectures.
- Built web interfaces for hackathon and startup prototypes using React, TypeScript and Tailwind CSS.
- Represented the startup at international bootcamps, datathons and major startup ecosystems.

System Architect Intern - Capgemini

Valencia, Spain | February 2026 - April 2026

- Trained in Pega Platform and enterprise system architecture.
- Gained exposure to process automation, low-code development and corporate software delivery.
- Worked within a large-scale consulting environment, strengthening technical documentation and business workflow analysis skills.

Leisure and Free Time Monitor

Valencia, Spain | July 2020

- Coordinated groups in dynamic environments, developing communication, leadership and conflict-resolution skills.

SELECTED TECHNICAL WORK

- Built backend services with Python/FastAPI, API integrations and database-backed workflows.
- Built hackathon and startup product interfaces using React, TypeScript and Tailwind CSS, connected to backend APIs and AI-driven workflows.
- Designed AI assistant prototypes combining LLMs, automation, voice/text interfaces and accessibility-first UX.
- Developed product demos from scratch, covering frontend, backend logic, AI integration and user validation.
- Worked with authentication, deployment, external APIs and iterative prototyping in startup environments.

FEATURED PROJECTS

CATY - AI Voice Assistant & Automation System

Tech: Python, FastAPI, React, TypeScript, Tailwind CSS, LLMs, Ollama/local models, automation workflows

- Built an AI assistant prototype focused on voice/text interaction, contextual task execution and accessibility.
- Developed backend workflows using Python/FastAPI to connect user commands with automation actions.
- Integrated LLM-based reasoning for summarization, app navigation and contextual user support.
- Explored local-first AI execution using Ollama/local models to improve privacy and reduce dependency on cloud inference.

Formula 1 Race Strategy Simulator - Final Degree Project

Full-Stack AI Prediction System · Tech: Python, scikit-learn, pandas, model evaluation, simulation data

- Built a race strategy simulator using a custom-trained machine learning model to predict optimal pit-stop timing and strategy outcomes.
- Engineered features related to tire degradation, lap evolution, race conditions and strategy performance.
- Developed backend logic for telemetry-inspired data processing, model inference and scenario comparison.
- Designed the system to translate model predictions into user-facing strategy recommendations and uncertainty-aware insights.

SentinelAX - AI Security Platform

Tech: Python, React, TypeScript, Tailwind CSS, TensorFlow/PyTorch, scikit-learn, NLP, Computer Vision, model evaluation

- Developed DeepFake detection models for both audio and image data.
- Built supervised ML classifiers for spam email and malicious URL detection.
- Implemented an NLP-based chatbot for automated threat analysis.
- Evaluated models using Accuracy, F1-score and ROC-AUC metrics.

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SKILLS

Programming & Backend

Python, JavaScript, TypeScript, SQL, Java, C++, FastAPI, REST APIs, JWT authentication

Frontend & Product

React, TypeScript, Tailwind CSS, Swift, HTML/CSS, responsive UI, product prototyping, accessibility-first design

AI & Machine Learning

TensorFlow, PyTorch, scikit-learn, Keras, Hugging Face, NLP, Computer Vision, LLM applications

Data & Infrastructure

PostgreSQL, Supabase, Git, Docker, Railway, Google Colab, API integrations

Systems, Testing & Security

APIs, system design basics, cloud deployment, storage solutions, authentication, basic test design, model evaluation, cybersecurity ML use cases, security awareness

ADDITIONAL PROJECTS

Accessible Tourist Routes App - iOS Product Concept / Prototype

Tech: Swift, iOS, GPS, accessibility-first UX, audio narration

- Designed an iOS product concept for accessible tourist routes using GPS-based location awareness and real-time route narration.
- Defined inclusive experiences for blind, visually impaired, deaf and hard-of-hearing users.
- Planned native Apple-style UX with audio narration, text alternatives and intuitive route discovery.

EDUCATION

B.S. in Telematics Engineering

University of Valencia | 2021 - 2026

University Extension Diploma in Artificial Intelligence

Samsung Innovation Campus - Universitat Politècnica de Valencia | 2025

Music Education - French Horn

Conservatory training | Elementary Degree, 4 years · Professional Studies, 6 years

Relevant coursework and certifications: Artificial Intelligence Foundations · Machine Learning · Neural Networks & Deep Learning · NLP & Language Models · Probability & Statistics · NumPy Optimization · Python Certificate, Banco Santander · Testing & Continuous Integration

LANGUAGES

Spanish: Native · Valencian: Native · English: Upper-Intermediate, B2

AWARDS & RECOGNITION

[First Prize] Dedalus Datathon 2025

AI solution using real healthcare data for challenges proposed by Dedalus.

[Selected Startup] IATecUV Incubator, Universitat de Valencia

Alntegra selected for the University of Valencia technology incubator for innovative digital and AI-based ventures.

[Selected Startup] VDS 2025, Startup Valencia

Alntegra selected to exhibit at Valencia Digital Summit with official University of Valencia support.

[First Prize] Gennera 2025, UV-MAPFRE

AI-based solution addressing real business challenges.

[First Prize] Gennera 5UCV, University of Alicante

Winning team in the interuniversity entrepreneurship program, representing the University of Valencia.

[Best Project] ETSE-UV · Xarxa UVempren 2025

Best project of the School of Engineering at the University of Valencia, recognized for innovation and viability.

[International] Innovation Bootcamp - Sweden

Selected by the University of Valencia to represent the institution in an international innovation program.