



Enrique Martínez

Systems and Software Engineer

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Software engineer with 2 years of experience building mission-critical backend services and real-time dashboards for European space launches. Deep expertise in Python, Vue, and cloud-native microservices. Passionate about writing clean, well-tested code that improves system reliability and operator efficiency.

Professional Experience

- Mar 2024 – Pres. **Software Engineer**, *GTD Space*, Barcelona, Spain (Hybrid)
- Built a schema-driven **Vue 3 component library** that auto-generates forms from **OpenAPI specs**, cutting UI development time.
 - Delivered a distributed alarm subsystem end-to-end: Pydantic models, FastAPI endpoints, Mongo persistence, operator-ack flow, Vue UI.
 - Streamed time & event packets via a Kafka-WebSocket bridge and rendered them in a mission-timeline canvas at a steady 60 FPS with 500+ concurrent elements.
 - Authored and maintained **50+ Cypress/Cucumber E2E tests** and integrated them into GitLab CI so every merge request runs the full test suite automatically.
 - Led **code-quality** initiatives: migrated styling from PrimeVue to Tailwind CSS, introduced ESLint + Prettier, and cut SonarQube code smells by 70%.
 - Mentored two junior developers through code reviews and pair-programming sessions.

Education & Certifications

- 2024 – Pres. **IT Architecture Expert Specialization**, *42 Paris, France*
Outer Core - AI & Data Specialization (RNCP 39774).
- 2022 – 2024 **Common Core**, *42 Málaga, Spain*
Immersive, self-directed curriculum with 30+ rigorous projects across algorithms, low-level C, networks, Docker and full-stack web development.
- 2016 – 2020 **Bachelor's in Business Management**, *University of Córdoba, Spain*
Started self-learning Python and applying it to business insights. Worked in a marketing startup and discovered my passion for programming.

Key Projects

- renfe-bot** Telegram bot and web scraper for finding train tickets (Python). Open-sourced on GitHub (20 stars).
- transcendence** Full-stack real-time gaming platform with Django, Django Channels, PostgreSQL, Docker Compose and ThreeJS.

Technical Skills

- Languages C/C++, Python, JavaScript, TypeScript, Bash, Racket, SQL, HTML, CSS.
- Frameworks FastAPI, Django, VueJS, Cypress, Cucumber, Celery, Redis.
- Tools Git, Linux, Docker, MongoDB, CI/CD.
- Valuable knowledge Full-Stack Development, UI/UX, Microservices, RESTful APIs, Agile and Scrum methodologies, design patterns.

Other

- Languages Spanish (Native), English (Fluent), French (Basic)
- Interests Distributed Systems, Audio Programming and DSP, Embedded Systems Programming.