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# Pablo Arancibia

## Software Developer

Contact info: [pabloarancibia.dw@gmail.com](mailto:pabloarancibia.dw@gmail.com)  
Portfolio: <https://github.com/pabloarancibia>  
Experience: 10+ years.

[www.linkedin.com/in/arancibiapablo](https://www.linkedin.com/in/arancibiapablo)  
Location: Málaga, Spain.

### Profile

**Backend-focused Senior Software Engineer** with over 10 years of experience, specializing in building robust, cloud-native architectures. Expert in **Python, GCP, and Microservices**, with a strong track record of designing scalable **REST APIs** and **event-driven data pipelines**. Proven ability to handle complex integrations, high-concurrency systems, and strict security protocols. Combines a background in R&D (IoT/Signal Processing) with a focus on code quality, testing standards, and CI/CD automation.

### Core Competencies

- **Languages:** Python (Advanced), TypeScript, JavaScript, SQL, C++.
- **Frameworks:** FastAPI, Django, Flask, Pytest, Node.js. - Angular
- **Cloud & DevOps:** Google Cloud Platform (Cloud Run, Functions, Pub/Sub), AWS, Docker, Terraform, CI/CD.
- **Architecture:** Microservices, RESTful APIs, Hexagonal & Event-Driven Architecture, Serverless.
- **Data & Databases:** PostgreSQL, MongoDB, Redis, RabbitMQ  
Kafka/MQTT patterns.
- **Fintech & Security:** PSD2, Open Banking, OAuth2, JWT, KYC/AIS/PIS  
Data handling.
- **Key Concepts:** Algorithms, Data Structures, System Design.

### Professional Experience

**Brite Payments** | Spain (Remote) **Senior Software Engineer** | 2024 – Present  
*Architecting secure backend microservices and data pipelines using Python (FastAPI) and Google Cloud Platform.*

- **Complex API Integration:** Designed and maintained a resilient backend ecosystem that consumes and orchestrates data from dozens of external third-party APIs, ensuring standardized data output despite inconsistent upstream sources.

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- **High-Availability Architecture:** Optimized **GCP infrastructure** (Cloud Run, Cloud Functions) to handle high-volume request spikes, implementing retry logic and circuit breakers to ensure 99.9% uptime.
  - **Security & Identity:** Implemented advanced authentication flows using **OAuth2 and JWT**, managing secure data exchange between internal microservices and external providers.
  - **Event-Driven Systems:** Built scalable data processing pipelines to ensure data consistency and synchronization across distributed databases, prioritizing low latency and data integrity.
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#### **Freelance | Remote Senior Software Developer | 2024**

- **QA Automation:** Architected a comprehensive Testing Suite Framework using **Pytest** and Django for a private client, significantly reducing regression bugs.
- **CI/CD Implementation:** Built and deployed CI/CD pipelines via Bitbucket to automate quality assurance, testing, and deployment processes.
- **Legacy Migration:** Led the integration of legacy Node.js services with modern Python backend logic, improving system maintainability and performance.

#### **ECOM Chaco | Remote Lead Fullstack Developer | 2020 – 2023**

- **Agile Leadership:** Led development teams using Scrum methodologies; managed requirements analysis, task prioritization, and architectural decision-making.
- **Scalable Architecture:** Designed and optimized scalable architectures using **Python (Django/DRF)** and TypeScript, ensuring seamless integration between backend and frontend (Angular/Ionic).
- **Team Management:** Acted as Lead Developer, coordinating with third-party vendors and internal stakeholders to deliver government-level software solutions.

#### **Freelance | Remote Fullstack Developer (IoT Specialist) | 2022**

- **IoT Solution Design:** Executed end-to-end development of an IoT state-management system integrating RFID technology, microcontrollers, and MQTT protocols.
- **Tech Stack:** Built the ecosystem using TypeScript, Node.js, Express, C++, Docker, and Nginx.

#### **Argentine Air Force | Argentina R&D Engineer & Team Lead | 2014 – 2020**

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- **Radar Signal Processing (2018-2020):** Led R&D efforts for upgrading radar signal processors. Developed embedded systems and algorithms using **Python and C++** for real-time signal analysis (High transferability to AI/ML logic).
  - **IT Operations Management (2014-2020):** Head of Communications and IT Services. Managed a team of 17 professionals, overseeing critical infrastructure (Linux, Cisco) and resource budgeting.
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## Education

**Internet of Things (IoT) Specialty** | University of Buenos Aires (UBA) | 2020 - 2023

*Focus: MQTT, TCP/IP, LoRaWAN, Machine Learning, Cybersecurity.*

**Degree in Computer Science** | National University of Lanús | 2020 - 2022

*Focus: Systems Design, Computational Thinking.*

**Diploma on Data Science** | ITBA | 2020

*Focus: Advanced SQL, ETL, Python, Machine Learning/Neural Networks.*

**Cardano Blockchain Developer** | Emurgo | 2021 - 2022

*Focus: Haskell, Blockchain fundamentals.*

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## Language Skills

**English:** Full Professional Proficiency (Daily use in international teams)

**Spanish:** Native