



IGNACIO LEQUERICA

Senior Solutions Architect | Quality & AI Engineer

Enterprise Solutions Architect with 25 years of certified leadership driving cloud modernization, tech stack definition, and architectural resilience in high-availability and mission-critical environments (Aviation & Nuclear Sectors). Expert in building scalable cloud-native platforms, implementing advanced automated QA frameworks, and pioneering AI-assisted software development lifecycles (SDLC) to optimize team velocity, maximize platform stability, and achieve fast Time-to-Market.

CONTACT

Madrid | Relocating to Eindhoven

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EDUCATION

BSc Software Engineering
UNED (Spain)

Technical Engineering
Universidad Nebrija

EXPERT CERTIFICATIONS

Azure DevOps Engineer Expert
(AZ-400)

Azure Solutions Architect
Expert
(AZ-305)

Azure Administrator Associate
(AZ-104)

Azure AI Fundamentals
(AI-900)

Azure Fundamentals
(AZ-900)

Microsoft Systems
Administrator
(MCSA)

LANGUAGES

English: B2 Professional
ID: LG0000006428 (Verify)

Spanish: Native

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer

2024 – Present

IBERIA (Aviation Maintenance) via CRCIT

Leading the development, cloud transformation, and production resilience of critical software for the Aircraft Maintenance division under strict safety and operational efficiency standards.

- Architected and developed high-throughput backend systems in **Java and Spring Boot** using Producer-Consumer patterns for seamless async processing of aviation data.
- Built responsive, reactive frontends using **React, Vite, and Nest.js**, implementing an **Event-Driven CQRS architecture** combined with **BullMQ** for advanced job queue processing.
- Orchestrated cloud-native infrastructure on **AWS** (Lambdas, ECS, EC2, EventBridge, SNS, SQS, ECR) managing secrets via Secrets Manager.
- Implemented automated QA with **Jest** to mitigate regression risks on business-critical workflows.
- Enforced data persistence governance over **PostgreSQL and Oracle** databases optimizing access with **MikroORM**.
- Ensured high availability and proactive observability with **Dynatrace and Amazon CloudWatch**, participating in 24/7 production support rotations (**On-Call** every 3 weeks).
- Accelerated the corporate SDLC by integrating structured GitHub Flow and AI-assisted development via **GitHub Copilot (AI)**.

CTO & Co-Founder

2024 – Present

BICICITA.COM

End-to-end technical leadership, architecture design, and system deployment of a growing social network and utilities platform for the cycling community.

- Engineered and deployed cross-platform native mobile applications for iOS and Android with **React Native and Expo 53**, ensuring smooth performance and a unified codebase.
- Built a high-performance **Progressive Web App (PWA)** optimised for offline-first operation and advanced caching strategies.
- Designed a hybrid rendering architecture with **Next.js** (ISR, SSG, and CSR) to guarantee sub-second public load times and maximise SEO positioning.
- Containerised and isolated microservices with **Docker and Docker Compose**.
- Deployed and configured **Traefik** as a high-performance reverse proxy and load balancer for secure traffic tunnelling and service discovery.
- Administrated and hardened the dedicated **Linux** server environment, optimising the relational data layer over **PostgreSQL**.
- Optimised feature delivery using **GitHub Copilot (AI)** as an advanced engineering assistant.

TECHNICAL STACKS

CLOUD & INFRASTRUCTURE

Azure App Service (PaaS)

Azure VMs (IaaS) AWS Cloud

Google Cloud Platform

Docker Compose Traefik

Windows Server RDS WebLogic

CI/CD & DEVOPS

Azure DevOps Expert

CI/CD Pipelines GitHub Copilot

Shell Scripts (Bash)

LANGUAGES & FRAMEWORKS

.NET 7 / 8 .NET Framework 4.8

Java / Spring Boot NestJS

Next.js React / Vite Angular 14

Angular 5 Vue.js PHP PWA

MOBILE DEVELOPMENT

React Native Expo 53 development

QUALITY ASSURANCE (QA)

Selenium Jest NUnit JUnit

Mocha Chai IBM RQM

ARCHITECTURE & DATA

CQRS BullMQ PostgreSQL

Oracle DB SQL Server MySQL

MikroORM On-Call Support

ARTIFICIAL INTELLIGENCE

ChatGPT Claude

Microsoft Copilot Google Gemini

Perplexity NotebookLM Cursor

Power Automate + AI Builder

Make / Zapier

Senior Developer & Azure DevOps Engineer

2022 – 2024

GRUPO KARNOV via CRCIT

Engineered enterprise legal and corporate SaaS solutions, modernising deployment lifecycles and managing hybrid cloud infrastructures.

- Optimised core systems across a diversified Microsoft ecosystem, including modern **.NET 7** applications and legacy **.NET Framework 4.8** maintenance.
- Designed, built, and automated multi-stage **CI/CD pipelines in Azure DevOps**, standardising deployments across production and testing environments.
- Isolated and scaled hybrid infrastructures using **Azure Virtual Machines (IaaS)** under hardened **Windows Server RDS** environments.
- Architected multi-tenant web application deployments leveraging the elastic capabilities of **Azure App Service (PaaS)**.
- Built maintainable frontend components using **Vue.js and Angular 14** under semantic HTML and modern JavaScript standards.

Backend Developer / QA Engineer

2019 – 2022

EL CORTE INGLÉS via CRCIT

Quality assurance engineering, backend maintenance, and platform stability of the e-commerce supermarket web platform under massive concurrent traffic demands.

- Built automated integration and End-to-End (E2E) test suites with **Selenium, Mocha, and Chai**, reducing regression cycle times.
- Managed defect lifecycle and test plans integrated in IBM Rational Quality Manager (**RQM**).
- Maintained and refactored critical server-side logic developed in **Java and JSP components** for payment workflows.
- Administered deployments on Oracle **WebLogic** application servers running on enterprise **Linux** distributions.
- Eliminated false positives in test environments by containerising the QA environment with **Docker** and automating routines with **Shell Scripts (Bash)**.

Senior Software Engineer

2018 – 2019

ACCIONA (Renewables) via CRCIT

Engineered data-driven solutions for real-time monitoring and analytical reporting of international renewable energy infrastructures.

- Developed high-availability backend microservices with **Java and Spring**, ensuring agile processing of sensor data streams.
- Deployed interactive operator dashboards with **Angular 5** for complex energy asset analytical mapping.
- Provisioned cloud-native execution environments on **Google Cloud Platform (GCP)**.
- Optimised complex analytical queries over relational engines **SQL Server and Oracle DB**.

Project Manager & Architect

2009 – 2018

TECNATOM (Nuclear Energy) via CRCIT

Directed the development of the global financial control system for nuclear plant operations under strict international compliance regulations.

- Defined the corporate tech stack: **.NET Core / Framework Web API**, Entity Framework, and SQL Server.
- Led the frontend transformation using **Angular with Redux** for corporate state predictability, incorporating extensive regression suites.
- Managed the full project lifecycle, from requirements elicitation to international deployment.

Analyst, Senior Developer & Owner

2003 – 2009

JACAR SYSTEMS

Technical leadership, end-to-end architecture design, and execution of bespoke software projects and enterprise management platforms.

- **Ecomm & SMS Platform:** Designed and implemented an e-commerce ecosystem integrated with automated messaging gateways using **PHP, HTML, JavaScript, and MySQL**.
- **Walkiria Logistics:** Architectural definition and deployment of a supply chain platform and mobile solutions based on **.NET, C#, and IIS**.
- **Corporate Solutions:** Built distributed web applications and generated business intelligence and reporting dashboards with **Crystal Reports**.

Communication Technical Specialist

2003 – 2004

COLT TELECOM

Sustained network infrastructure reliability and real-time operational monitoring within an enterprise telecommunications framework.

- Monitored and responded to critical alarms across data and transport infrastructure layers: **IP, SDH, PDH, LanLink, and SDSL**.
- Administered and performed closed-loop testing on **Backup Systems** and enterprise network routers.
- Collaborated closely with development engineering teams for isolation and debugging of complex network anomalies.

Computer & Network Technician

2003 – 2004

VITALDENT

IT infrastructure deployments, data network orchestration, and technical consulting across distributed corporate environments.

- Provisioned, configured, and hardened **Cisco** routers for secure remote interconnection over **VPN** networks.
- Administered the full lifecycle of office network equipment and delivered advanced multi-zone support (Helpdesk).
- Developed corporate web assets and internal technical knowledge-base infrastructure.

Operating Systems Instructor

2001 – 2003

TORVALL

Specialised technical training and administration of educational laboratory technology infrastructure.

- Taught advanced **Operating Systems** for the Higher Education Training Cycle (**Computer Systems Administration**).
- Provided training in hardware and software engineering principles and academic network installation.
- Configured and managed the academy's perimeter network infrastructure.

Software & Hardware Systems Technician

2001 – 2001

NCR SPAIN

System deployments and physical installations of critical servers for large corporate accounts nationwide.

- Installed, configured, and hardened mission-critical production server architectures for accounts such as **Telepizza** and **Yves Rocher**.
- Isolated hardware faults and optimised base system software.

Systems Maintenance Technician

1999 – 2001

CANAL NEBRIJA

Ensured operational availability of computer labs and participated in internal infrastructure development projects.