

Mark James Sánchez

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Professional Profile

Infrastructure & Application Engineer with 25+ years of experience modernizing enterprise infrastructure, automating operations, and developing business-critical applications. Extensive expertise in Windows and Linux administration, virtualization, cloud infrastructure, automation, systems integration, databases, and legacy modernization. Developed custom migration and automation tooling in C#, Rust, Go, and PowerShell. Designed, maintained, and modernized production applications supporting 250+ users across distributed environments. Interested in infrastructure, platform engineering, systems integration, and reliability-focused roles. Open to relocation to Switzerland or Norway. German A2 certified.

Core Technical Competencies

Linux & Systems	Advanced GNU/Linux (Debian, Ubuntu); system administration, shell scripting, networking, storage, Docker, VMware, virtualization (ESXI, Proxmox), distributed multi-site environments.
Databases & SQL	SQL Server architecture, schema design and normalization, stored procedures, query optimization, DTS to SSIS migration, data integration, performance analysis.
Infrastructure & Automation	Infrastructure modernization, datacenter consolidation, cloud migration (IaaS). Custom tool development (Rust, C#, PowerShell) to solve infrastructure challenges where commercial solutions were inadequate. Deployment automation, configuration management, CI/CD workflows, infrastructure-as-code patterns.
Application Development	C# backend development (ASP.NET Core, Blazor), TypeScript/JavaScript (Node.js backend), RESTful API design, database integration.
Infrastructure Reliability	Production system diagnostics, log analysis, root-cause analysis, incident response, monitoring, incident response and troubleshooting of distributed systems.

Professional Experience

May 2022 – Present **Application Analyst & Developer**, *Valper Soluciones (Embedded within Toyota Canarias)*, Las Palmas de Gran Canaria

Design, development, refactoring, and maintenance of production operations platform serving 20-30 users across distributed business network.

- Refactored legacy monolithic JavaScript/React application (inherited as single file with 100s-line functions) into modular, maintainable architecture while delivering concurrent feature development.
- Extended platform capabilities: reservations, multi-site inventory management, contract generation and PDF automation, customer data management, sales workflows applying clean code principles to eliminate code duplication, standardize architecture, enable rapid feature iteration.
- Architected real-time database integration with legacy enterprise systems; automatic data synchronization across multiple databases.
- Maintained 24/7 production uptime; system actively used daily by 20-30 users across sales, after-sales, and management teams.

- Nov 2019 – **Systems & Cloud Administrator**, *Valper Soluciones (Toyota Canarias environment)*, Las Palmas de Gran Canaria
- Apr 2022
- Planned and executed datacenter consolidation for 12 companies (250+ users across 7 locations), migrating 16 production servers to centralized cloud infrastructure.
 - Automated multi-stage ICAR migration for 12 instances with complex version dependencies.
 - Built custom migration tools in Go, Rust, C#, and PowerShell to solve infrastructure challenges where needed: distributed database backup management, encrypted configuration handling, cross-database updates, stored procedure replication.
 - Migrated legacy data workflows to modern integration platform; refactored legacy reporting application to eliminate manual configuration during migrations.
 - Executed zero-disruption migrations (6-8 hour windows): coordinated 170GB+ data transfers, database restores, version upgrades, testing, with rollback plans.
- Jul 2006 – **Senior Systems Administrator**, *Toyota Canarias S.A.U.*, Las Palmas de Gran Canaria
- Oct 2018
- Progressive technical roles in IT department, managing distributed infrastructure supporting business operations across 7 locations and 250+ users.
 - Administered Windows Server, SQL Server, Cisco networking, virtualization (ESXI), and Active Directory across multi-site environments.
 - Developed internal automation and integration tools (C#, Java) for operational workflows; managed legacy system migrations and modernization.
 - Managed enterprise databases: schema design, performance optimization, cross-system integration.
- 2001 – 2006 **Software Development and Systems Administrator**, *Various SMEs (Spain)*
- Development of web and GIS applications (Java/J2EE, PHP, MySQL);
- 1999 – 2001 **Systems Administrator**, *Daily Price S.L.*, Spain
- Managed national network infrastructure for franchise group with 100+ locations.
- Deploying POS systems nationwide and administering corporate intranet connectivity.

Technical Projects

- Jan 2026 – **Blentinel: Distributed Monitoring Platform (Rust)**
- Present
- Cross-platform telemetry platform for monitoring infrastructure located behind firewalls.
 - Built in Rust with SQLite and a WASM dashboard.
 - End-to-end encrypted communications with optional TLS.
 - Currently used to monitor production infrastructure across distributed environments.

Education

- 1995 – 1997 **University Collaboration Scholarship in Network Administration on HP-UX/SGI**, *ULPGC*
- 1992 – 1997 **Computer Science (coursework completed, degree not awarded)**, *Universidad de Las Palmas de Gran Canaria*
- 1986 – 1992 **Advanced Vocational Diploma in Electronic Communications**, *IFP Fuengirola, Málaga*

Certifications & Languages

- 2007 Cisco Certified Network Associate (CCNA)
- Languages English (native), Spanish (C2), German (A2 – actively improving)