

GERARDO ESPARZA

Ing. Sistemas Computacionales

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PROFESSIONAL PROFILE

I am a Full Stack Software Engineer specialized in building complete, scalable, and production-ready systems. I have experience designing databases, developing REST APIs, creating modern PWAs, managing cloud environments, and providing technical support and training to users. I combine analytical thinking with practical implementation to deliver end-to-end solutions that improve operational efficiency and digitize business workflows.

EDUCATION

B.Sc. in Computer Systems Engineering, Universidad Politécnica de Aguascalientes, 2022 - 2025.

Technical Degree in Programming, CETis 80 Gral. Ignacio López Rayón, 2019 - 2022.

WORK EXPERIENCE



Full Stack Software Engineer & Systems Administrator, Darpha Fire Solutions | 2024 - Present

Roles held:

Full Stack Developer, DevOps & Cloud Services Administrator (Railway & AWS), Technical Support, IT Trainer.

Core Responsibilities & Key Achievements

Software Architecture & Development

- Designed and implemented the full system architecture: database models, REST API, backend services, and responsive PWA interface.
- Built a secure, scalable platform using React, Vite, Node.js, Express, Sequelize, and PostgreSQL.
- Created an optimized relational database and a component-based UI ensuring maintainability and consistency.

Key System Features Delivered

- Inventory and machine management modules.
- Supervisor dashboards with metrics and analytics.
- Digital signatures, QR/barcode generator & scanner.
- Role-based access control, email notifications, light/dark mode.
- Full report/format management system.

Cloud & Deployment

- Manage hosting for frontend, backend, and DB in Railway.
- Administer AWS S3 for secure storage and file workflows.
- Handle production deployments, updates, and server diagnostics.

IT Operations & Support

- Technical support for internal and client users (software, PC, devices).
- Continuous maintenance, bug fixing, and troubleshooting.

Training & User Adoption

- Conduct on-site user training and create documentation.
- Onboard non-technical users and support system rollout.

Collaboration & Business Impact

- Gather requirements directly with management and operations.
- Digitized and automated manual workflows, reducing errors and processing time.
- Unified all system processes into a single integrated platform.

TECHNICAL SKILLS

Languages & Frameworks

- JavaScript (ES6+), Node.js, Express.js
- React + Vite, CSS & CSS Modules
- Basic C# (.NET & ASP.NET)

Backend & API Development

- REST API design, MVC architecture
- Sequelize ORM (models, relations, migrations)
- Authentication, validation, RBAC

Databases

- PostgreSQL (schema design, optimization)
- SQL Server (basic)

Cloud & DevOps

- Railway (deployment, environment setup, logs)
- AWS S3 (storage configuration & management)
- Basic Docker, CI/CD fundamentals

Web Technologies

- PWA development (responsive design, caching)
- QR & barcode generation/scanning

Tools

- Git/GitHub, Postman, VS Code
- Linux CLI basics

IT & Support

- Technical support for software, PCs, devices
- User training & documentation

Methodologies

- Scrum / Agile
- Requirements gathering & process design

HIGHLIGHTED SKILLS

- Leadership and team coordination capabilities
- End-to-end project management, from requirements gathering to solution deployment
- Strong autonomy and self-learning initiative
- Excellent communication skills for teamwork

Languages:

- Spanish (Native), English