

Jorge Luis Peña Real.

Mobile: +52 5614846065 | E-mail: jorgeluispenareal@gmail.com | LinkedIn: [Jorge Peña](#)

EDUCATION

Instituto Politécnico Nacional (IPN) México City.

Unidad Profesional Interdisciplinaria de Ingeniería y Ciencias Sociales y Administrativas (UPIICSA)

Computer Engineer (2019-2024)

LANGUAGES:

- English: **B2 (Upper-Intermediate)**: Professional working proficiency. Experienced collaborating daily with international, English-speaking teams across the U.S. and Europe in Agile environments.
- Spanish: Full professional proficiency.

EXPERIENCE

Nortal/T-Mobile Mexico City

- Design and develop **server-side rendered (SSR) applications** using **Next.js**, optimizing performance, SEO, and cross-device responsiveness.
- Build and maintain **scalable RESTful APIs** with **Spring Boot 3**, applying Clean Architecture and SOLID principles.
- Implement comprehensive **testing strategies**:
 - Frontend: **Vitest, Playwright** (unit, integration, and end-to-end testing).
 - Backend: **JUnit, Mockito, Selenium**.
- Integrate **AI-assisted development tools (Claude Code and GPT Codex)** into daily workflows to accelerate coding, enhance code reviews, and automate repetitive tasks, improving developer productivity and reducing turnaround times.
- Configure and maintain **CI/CD pipelines** using **GitHub Actions**, automating testing, builds, and deployments.
- Collaborate within **Agile/Scrum environments**, working cross-functionally to deliver high-quality, maintainable solutions for enterprise-level digital platforms.
- Ensure code quality through peer reviews, documentation, and best practices.

Tech Stack: Java, Spring Boot 3, TypeScript, Next.js, Vitest, Playwright, Mockito, JUnit, Selenium, GitHub Actions, AI-assisted development tools (Claude Code, GPT Codex)

PepsiCo Mexico City

Full Stack Developer May 2023 – May 2025

- Developed and maintained **responsive web applications** using **React (JavaScript/TypeScript)**, focusing on performance, reusability, and clean component architecture.
- Designed and implemented **RESTful APIs** using **Spring Boot (Java)** and **Node.js**, contributing to microservices-based architectures.
- Built and maintained **microservices**, ensuring scalability, fault tolerance, and clear service boundaries.
- Implemented **server-side rendering (SSR)** solutions using the **MVC pattern with Handlebars** to generate dynamic content efficiently.

- Deployed and managed applications in **AWS cloud environments**, supporting scalability, availability, and performance optimization.
- Configured and monitored **CI/CD pipelines**, enabling automated builds, testing, and deployments across multiple environments.
- Applied comprehensive testing strategies using **Jest, Vitest, and Cypress** (unit and end-to-end testing).
- Delivered internal enterprise solutions for **PepsiCo**, collaborating in Agile teams and aligning with corporate development standards.

Tech Stack:

React, JavaScript, TypeScript, Spring Boot, Java, Node.js, REST APIs, Microservices, Handlebars (MVC), AWS, Jest, Vitest, Cypress, CI/CD

Tata Consultancy Services

Mexico City

Full Stack Developer

July 2022 – May 2023

- Developed and maintained **frontend applications using React (JavaScript/TypeScript)**, delivering new features and resolving production bugs across multiple enterprise web applications.
- Built and enhanced **RESTful APIs with Spring Boot (Java)**, ensuring scalability, performance, and clean architecture standards.
- Monitored and supported application deployments in **AWS**, verifying application health, environment configurations, and cloud resource status.
- Implemented **unit and end-to-end testing** strategies using **Jest, Vitest, and Cypress** to improve reliability and reduce regressions.
- Collaborated in Agile teams to deliver internal enterprise solutions aligned with client requirements and performance standards.

Tech

Stack:

React, JavaScript, TypeScript, Spring Boot, Java, REST APIs, AWS, Jest, Vitest, Cypress

GlobalPrimex

Mexico City

Full Stack Developer

January 2022 – July 2022

- Developed dynamic and scalable **web applications using Angular (TypeScript)**, focusing on modular architecture, reusable components, and performance optimization.
- Built cross-platform **mobile applications with NativeScript**, delivering native experiences for both **iOS and Android** from a unified codebase.
- Designed and implemented **GraphQL APIs using Express.js and Node.js**, enabling efficient data fetching, schema design, and optimized client-server communication.
- Contributed to full application lifecycle, including feature development, API integration, debugging, and performance improvements.
- Collaborated in Agile environments to deliver maintainable, high-quality solutions aligned with business requirements.

Tech Stack:

Angular, TypeScript, NativeScript, iOS, Android, Express.js, Node.js, GraphQL

Codingo Academy

Mexico City

- Developed and maintained **web applications using Angular and React.js**, building reusable components and implementing responsive UI solutions.
- Built cross-platform **mobile applications with React Native** for both **iOS and Android**, ensuring consistent performance and user experience.
- Designed and implemented **REST and GraphQL APIs** using **Express.js (Node.js) and Flask (Python)**, enabling efficient data management and service communication.
- Deployed and managed cloud-based applications in **AWS**, utilizing services such as **S3, API Gateway, DynamoDB, and Route 53** to ensure scalability, availability, and reliability.
- Containerized applications using **Docker**, improving environment consistency and deployment efficiency.
- Implemented and maintained **CI/CD pipelines in GitLab**, automating build, testing, and deployment processes.

Tech

Stack:

Angular, React.js, React Native, iOS, Android, Express.js, Flask, GraphQL, AWS (S3, API Gateway, DynamoDB, Route 53), Docker, GitLab CI/CD

Codingo Academy

Mexico City

Frontend Developer Intern – Production Support

June 2020– January 2021

- Frontend developer with Angular 10
- Design of Entity Relations diagram
- Deploy of app of angular using AWS

Stack: Angular 10, TypeScript, ER Diagrams, AWS