

# JUAN DIEGO FANDIÑO

Full Stack Engineer | React • Next.js • TypeScript • NestJS • Node.js • AWS • AI/LLM Integration  
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## PROFESSIONAL SUMMARY

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Full Stack Engineer with 8+ years delivering scalable, high-performance, user-focused web applications across fintech, edtech, banking, and retail. Expert in React, TypeScript, JavaScript, NestJS, [Node.js](#), Express, PostgreSQL, MongoDB and AWS architecture. AWS Certified Cloud Practitioner. Proven track record architecting full-stack solutions, optimizing performance (Core Web Vitals), implementing RAG/AI workflows, and leading cross-functional teams from design to production. Specialized in system design, Micro Frontends, API architecture, and security (OWASP, OAuth2, JWT). Fluent in Spanish, B2 English.

## TECHNICAL SKILLS

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**Frontend:** React, TypeScript, Angular, JavaScript (ES6+), Next.js, Vite, HTML5, CSS3, Tailwind CSS, Micro-frontends, Responsive Design

**State Management & APIs:** Redux, Zustand, TanStack Query, Context API, REST APIs, GraphQL, Fetch/Axios

**Backend & Databases:** Node.js, NestJS, Express, PostgreSQL, DynamoDB, pgvector, Vector Databases, Query Optimization, Caching (Redis)

**Cloud & DevOps:** AWS (Lambda, API Gateway, S3, CloudFront, RDS, DynamoDB, CloudWatch, IAM), CI/CD (GitHub Actions, Git), Docker, Monitoring & Observability

**AI/LLM & Advanced:** OpenAI API, RAG Architecture, LLM Integration, Prompt Engineering, AI Agents, Workflow Automation

**Testing & Security:** Jest, React Testing Library, Vitest, OWASP Top 10, OAuth2, JWT, Input Validation, IAM Least Privilege

**Methodologies:** Agile, Scrum, Kanban, TDD, Code Review, System Design, Technical Documentation

## WORK EXPERIENCE

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**Yourway Learning** | *Software Developer — Frontend & Full Stack* | May 2025 – Present

- Architected and deployed production RAG pipeline (OpenAI embeddings + pgvector + cosine similarity) processing 10K+ requests/day, reducing hallucination rates by 35% through optimized prompt chunking and reranking strategies.
- Built AI agent workflows using LLM function calling for automated content summarization and quiz generation, enabling 30K+ students to generate custom study materials on-demand with zero manual intervention.
- Delivered full-stack features (React/TypeScript + NestJS + PostgreSQL) across 3+ major product launches annually; implemented code review culture and mentored 2 junior engineers on frontend architecture patterns and TypeScript best practices.

**Pragma S.A.** | *Software Developer — Frontend & Full Stack* | March 2022 – May 2025

- Engineered serverless backend solutions (AWS Lambda + API Gateway + DynamoDB) enabling auto-scaling for 5+ high-traffic retail campaigns; reduced infrastructure costs by 40% and eliminated server management overhead while maintaining <200ms response times at peak load.
- Optimized frontend performance via code splitting, lazy loading, and asset caching; deployed CloudFront CDN reducing LCP from 2.8s → 1.2s, improving Lighthouse score from 58 → 92.
- Designed reusable component library (React + Material-UI) accelerating development velocity by 25%; established design system consistency across 4+ product teams; enforced OWASP compliance, input validation, and secure token handling across all applications.

**Q-Vision Technologies** | *Software Developer — Frontend* | July 2020 – March 2022

- Built data-driven dashboards and financial reporting interfaces (Angular v13+ + Material-UI) for regulated banking environments; ensured WCAG compliance, accessibility audits, and pixel-perfect design fidelity reducing accessibility violations by 100%.

- Collaborated with UX/backend teams on complex UI/API integration; implemented real-time data binding and optimized rendering for large datasets, reducing dashboard load time by 45%.

**Industry Fabric Studio** | *Full Stack Developer* | October 2016 – July 2020

- Delivered 20+ e-commerce platforms and custom web applications (WooCommerce + WordPress + PHP) for national/international clients across retail, services, and consulting; maintained cross-browser compatibility and achieved <2% production incident rate.

## EDUCATION

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**Systems Engineer (B.Sc.)** | Universidad del Valle, Cali, Colombia | 2017–2021

Thesis: Progressive Web Application (PWA) for student registration, control, and monitoring in educational sector. Focus: UI design, software testing.

**Systems Technologist** | Universidad del Valle, Cali, Colombia | 2014–2017

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner** | Amazon Web Services (Feb 2025) | Credly verified

**React: De cero a experto (Hooks y MERN)** | Udemy (Mar 2022)

**Amazon AWS — Cloud Fundamentals** | Udemy (Apr 2022)