

VICTOR ALVAREZ

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EDUCATION

Universidad Nueva Esparta

Nov 2025

Bachelor of Science in Computer Science, **Cum Laude** (17.88/20.0)

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PHP, Dart, SQL, Python

Frontend: React, Next.js, Vue.js, Tailwind CSS, shadcn-ui, React Query

Backend: NestJS, Node.js, Fastify, Laravel, REST APIs, Microservices

Databases: PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM

Cloud & DevOps: AWS EC2, Vercel, Docker, NGINX, Git, Linux, MinIO, CI/CD pipeline, GitHub Actions

Message Brokers: RabbitMQ, NATS JetStream, Bull Queues

AI & LLMs: Groq API (Llama 3.1 8B), Claude Code, GPT API Integration

Architecture: Clean Architecture,DDD, CQRS, Event-Driven, Microservices

Testing: Jest, Playwright, Supertest, TDD, Integration Testing, E2E Testing

Design Patterns: Factory, Strategy, Observer, Command, Adapter, Singleton, Builder

Observability: OpenTelemetry, Jaeger, Prometheus, Grafana

PROFESSIONAL EXPERIENCE

Full Stack Developer

Jun 2024 - Present

FIIDT - Information Security & Electronic Certification Center, Caracas, VE

- Architected enterprise microservices platform with Clean Architecture, DDD, and CQRS, deploying 5 services with Next.js 15 frontend serving 10,000+ monthly users with 99.9% uptime
- Engineered asynchronous report generation system using Bull queues, Redis, and MinIO storage, processing PDF/Excel reports with real-time frontend polling, reducing generation time by 75%
- Built JWT authentication microservice with Redis caching, rate limiting, and Next.js protected routes with role-based UI rendering
- Developed national-scale PKI certificate validation platform with HashiCorp Vault, processing 1,000+ monthly validations
- Implemented real-time OCSP validation API and WebSocket dashboard displaying live electoral statistics for 1,000+ concurrent users
- Optimized PostgreSQL with indexing (60% faster queries) and Next.js bundle through code splitting (800ms load time, 100 Lighthouse score)

Flutter Developer (internships)

Apr 2024 - Dec 2024

Plus 351, Panama City, Panama (Remote)

- Developed secure Flutter kiosk with backend JWT authentication, QR validation API, and offline-first architecture serving 500+ daily users
- Implemented domain-level URL whitelisting middleware with custom WebView navigation achieving 100% data integrity

Backend Developer & BI Specialist

Nov 2018 - Jul 2021

Bancamiga Banco Universal, Caracas, Venezuela

- Migrated legacy Excel models to Laravel RESTful APIs with interactive Vue.js dashboards serving 30+ stakeholders
- Engineered ETL pipelines processing 1M+ daily transactions with real-time WebSocket updates and Chart.js visualizations
- Optimized SQL queries reducing report generation from 4 hours to 15 minutes (94% improvement)

PROJECTS

AI-Powered Kitchen Management System

NestJS, Vue 3, PostgreSQL, RabbitMQ, Redis, Bull, Groq AI | Deployed on AWS EC2

- Architected full-stack system with 6 microservices (NestJS backend) and Vue 3 SPA consuming real-time AI predictions
- Deployed on AWS EC2 with NGINX reverse proxy for HTTPS and domain routing
- Integrated Groq API (Llama 3.1 8B Instant) for predictive analytics achieving 85% accuracy in inventory forecasting

Enterprise Event Platform

Next.js, NestJS, PostgreSQL, TypeScript, DDD

- Designed full-stack platform with Clean Architecture following SOLID and DDD patterns with 90%+ test coverage
- Architected microservices with CQRS, Outbox Pattern
- Integrated OpenTelemetry with Jaeger for distributed tracing and TDD approach for critical business logic

LANGUAGES

Spanish: Native | **English:** A2/B1 (Intermediate, actively improving)