

PIERCE ALEXANDER NOVOA HUAMAN

Trujillo, Peru • +51 981 073 159 • piercenovoah@gmail.com
[linkedin.com/in/piercenovoah](https://www.linkedin.com/in/piercenovoah) • github.com/piercenovo • piercenovo.dev

Fullstack Software Engineer • End-to-End Delivery • NestJS • Next.js • Flutter

PROFESSIONAL SUMMARY

Fullstack Software Engineer with 4+ years of experience delivering digital products end to end: requirements gathering, architecture design, REST API development in NestJS, web interfaces in Next.js, mobile applications in Flutter, and deployment to production. Applies Clean Architecture, SOLID principles and scalability best practices, designing data models, queries and stored procedures in PostgreSQL and SQL Server. Proven track record delivering solutions for the industrial, agricultural and financial sectors, with performance improvements above 30% and robust data integration and synchronization systems.

PROFESSIONAL EXPERIENCE

Fullstack Software Engineer • Mission Produce Peru

Trujillo, Peru

May 2024 – Present

- Delivered the dynamic field-evaluation forms module end to end —data model, REST API services and the web interface built in Next.js—, enabling business users to configure forms, formulas and evaluation rules without new code deployments.
- Modeled and optimized the SQL Server database, developing queries and stored procedures for bulk synchronization, formula reprocessing and heat map reporting.
- Implemented JWT authentication and authorization, role- and permission-based access control, and data validation across APIs consumed by web and mobile clients.
- Built web reporting modules (heat map, route map and supervisor findings) with geospatial rendering on Leaflet and cascading filters over high data volumes.
- Developed the offline-first Flutter mobile application processing 500+ daily operations, with bidirectional synchronization against REST APIs and local SQLite storage.
- Established a modular architecture with Clean Architecture, SOLID and dependency injection, scalable across business units and reusable between web and mobile.

Fullstack Developer • Custom Software Products (Freelance)

Trujillo, Peru

January 2024 – Present

- Deliver custom software products for companies across the full lifecycle: requirements gathering with the client, architecture design, development, production deployment and user training.
- Built a warehouse and industrial weighing management system on a Turborepo monorepo with a NestJS backend (Clean Architecture), a Next.js web backoffice and a PostgreSQL database, using shared Zod schemas as the single source of truth between backend and frontend.
- Developing a commercial management platform covering inventory, cash register, customers and sales, with a NestJS backend, a Next.js web frontend and a PostgreSQL database, prioritizing operation traceability and business reporting.
- Integrated an HBM industrial scale over the RS-485 serial protocol, exposing stabilized weight readings to the web system through a local service with an HTTP API.
- Manage VPS deployment with Docker, defining separate environments, per-environment migration scripts and automated database backups.

Mobile Software Engineer • Grupo Mendieta

Lima, Peru

March 2023 – March 2024

- Led the migration of a financial application from Xamarin to Flutter, reducing load times by 30%.
- Optimized parallel REST API calls, cutting response time from 1,800ms to 400ms (-78%).
- Implemented secure authentication with JWT/OAuth, encrypted tokens and automatic session refresh.
- Developed dynamic PDF report generation and push/local notifications for financial alerts.
- Established Clean Architecture with layer separation, DTOs/mappers and Cubit state management.

Mobile Developer • I.E. Nuestra Señora de Lourdes

Ascope, Peru

July 2022 – December 2022

- Developed an educational application with interactive games to improve concentration in children with ADHD (+30% engagement).
- Managed Play Store and App Store publication, complying with children's privacy regulations (COPPA).
- Ran usability testing with students and teachers, iterating the interface to improve accessibility.

EDUCATION AND CERTIFICATIONS

B.Sc. in Systems Engineering • Universidad César Vallejo (UCV)

Trujillo, Peru • 2018 – 2022

Bootcamp: Clean Architecture with Riverpod • Flutter Masters

Online • May 2024

Flutter - Mobile: From Zero to Expert • Udemy

Online • November 2023

TECHNICAL SKILLS

Backend & APIs: NestJS • Node.js • TypeScript • REST API design and development • Authentication and authorization (JWT, OAuth, roles and permissions) • Data validation (Zod, DTOs) • Typed error handling • Data integration and synchronization

Web Frontend: Next.js • TypeScript • Tailwind CSS • Responsive design • Reusable components • Data and map visualization (Leaflet)

Mobile Development: Flutter & Dart (4+ years) • Cross-platform iOS/Android • Offline-first architecture with automatic synchronization • BLoC/Cubit • Hardware integration (GPS, camera, QR/barcode scanners)

Databases: PostgreSQL • SQL Server (modeling, queries, stored procedures) • SQLite • MySQL • Firebase/Firestore

Architecture & Patterns: Clean Architecture • SOLID principles • Dependency injection • Use cases/interactors • DTOs and mappers • Monorepos (Turborepo) • Feature-first structure

Testing & Quality: Unit testing • Integration testing • Widget testing • TDD practices • Code review

DevOps & Tools: Git • GitHub • Docker • CI/CD pipelines • VPS deployment • Play Store/App Store • Figma • Scrum/Agile • Claude Code

Languages: Spanish (native) • English (professional working proficiency)