

# Juan David Conrado Pertuz

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## PROFILE

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Senior Full Stack Engineer with 5+ years of experience in Node.js, TypeScript, and Angular, specializing in serverless architectures, backend system design, and scalable microservices. Proven track record leading development teams and delivering integration-heavy systems to high quality standards. Fluent in English; native Spanish; conversational French.

## EMPLOYMENT HISTORY

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**Senior NodeJS Engineer** — N-iX, Bogotá Jan 2025 – Present

Stack: Node.js · TypeScript · AWS Lambda · API Gateway · EventBridge · SQS/SNS · DynamoDB · Terraform/CDK · Jest · Azure DevOps

- Architected serverless data pipelines on AWS Lambda to ingest and normalize transactions, catalog items, and settlements from multiple POS providers into unified domain models.
- Engineered Lambda-based connectors with idempotency, retry logic, and DLQs, enabling fault-tolerant multi-step data ingestion and enrichment workflows.
- Drove team adoption of a strict TypeScript type-safety strategy (shared types, runtime validation), reducing integration defects and improving developer velocity.
- Resolved critical production incidents and led tech-debt reduction initiatives covering logging, tracing, and error taxonomies, improving MTTR and codebase standards compliance.

**Senior Full Stack Engineer** — N-iX, Bogotá Sep 2023 – Jan 2025

Stack: Node.js · TypeScript · NestJS · MongoDB · Angular · Tailwind CSS · Docker · Google Pub/Sub · Jest

- Designed and built microservices handling the full insurance policy lifecycle and commercial lines, enabling scalable processing of business insurance workflows.
- Developed Angular UI components for policy management dashboards, improving data visibility and usability for business users.
- Implemented a policy remarks feature that enabled users to create and edit policy-linked notes, enhancing auditing and cross-team collaboration.
- Debugged and resolved application issues across the full stack, optimizing service integration and ensuring high performance and scalability.

**Backend Software Developer** — Smartsoft Labs, Independent Contractor Sep 2023 – Jan 2024

Stack: Node.js · TypeScript · Express · InversifyJS · RabbitMQ · Redis · Jest · SonarQube

- Designed a reusable, multi-project notifications service using RabbitMQ durable queues and ACK/NACK mechanisms, enabling reliable message delivery and processing at scale.
- Applied Clean Architecture with TypeScript, Node.js, and InversifyJS to produce a modular, project-independent notification system adaptable to new clients with minimal changes.
- Built cron-based scheduling for notification management and leveraged Redis for caching, optimizing queue throughput; validated quality via Jest unit/integration tests and SonarQube reports.

**Backend Technical Leader** — Smartsoft Labs, Barranquilla Jun 2023 – Sep 2023

- Led solution architecture design for web and mobile development projects, establishing clean architecture patterns that improved code maintainability across teams.
- Managed a development team using SCRUM methodology, consistently delivering project milestones on schedule and to quality standards.
- Standardized backend development processes, raising engineering productivity and reducing technical debt across the department.

**Project Manager & Full Stack Developer** — Smartsoft Labs, Barranquilla Jan 2023 – Jun 2023

Stack: TypeScript · Node.js · Express · Angular 12 · Ionic · Kubernetes · Helm · GKE · CI/CD

- Managed full software development lifecycle for multiple projects, ensuring on-time delivery and adherence to quality standards.
- Developed backend APIs with TypeScript/Node.js + Express and frontend applications with Angular 12/Ionic, delivering production-grade web and mobile solutions.
- Implemented Kubernetes, Helm, and GKE for project scalability and configured CI/CD pipelines, improving deployment speed and reliability.

**Backend Tech Lead** — Smartsoft Labs, Barranquilla

Jan 2022 – Jan 2023

Stack: TypeScript · Node.js · Express · Angular 12 · Ionic

- Designed and implemented backend architectures for web and mobile projects, introducing clean architecture patterns that elevated codebase quality and long-term scalability.
- Led development team delivery using SCRUM, ensuring consistent and high-quality project output while mentoring junior engineers on best practices.
- Standardized backend processes across projects, reducing inconsistency and improving cross-team maintainability.

**Full Stack Developer** — Smartsoft Labs, Barranquilla

Dec 2020 – Dec 2021

Stack: TypeScript · Node.js · Express · Angular 12 · Ionic · Jest · Cypress · WebRTC

- Built backend APIs with Node.js/Express and frontend interfaces with Angular 12/Ionic, contributing to multiple production applications deployed for end clients.
- Led an R&D project to build a WebRTC-based video call system, delivering a real-time communication prototype that became a foundation for future product offerings.
- Established CI/CD pipelines and comprehensive test suites with Jest and Cypress, improving deployment reliability and software stability across the team.

**EDUCATION**

**B.Sc. Software Engineering** — Universidad del Norte, Barranquilla

Jan 2017 – Dec 2021

Recognized among the top graduates in the program by the national Examen Saber Pro (Calidad de la Educación Superior).

**TECHNICAL SKILLS**

<b>Languages</b>	TypeScript · JavaScript · Python · SQL
<b>Backend</b>	Node.js · NestJS · Express · Hono · Bun
<b>Frontend</b>	Angular (v12–19) · Ionic · Tailwind CSS
<b>Cloud / AWS</b>	Lambda · API Gateway · EventBridge · SQS/SNS · DynamoDB · Terraform / CDK
<b>DevOps</b>	Docker · Kubernetes · Helm · GKE · Azure DevOps · CI/CD · Git
<b>Databases</b>	MongoDB · PostgreSQL · DynamoDB · Redis · SQLite
<b>Practices</b>	Clean Architecture · Serverless · Microservices · Agile / SCRUM

**LANGUAGES**

<b>Spanish</b>	Native
<b>English</b>	Fluent (B2/C1)
<b>French</b>	Basic (A2 — Alliance Française)

**REFERENCES**

<b>Esteban Quiroz</b>	Software Engineer, GlobalLogic · esteban.quirozv@gmail.com · +57 300 627 1543
<b>Sergio Ayala</b>	Software Engineer, Bold.co · global.ayala@gmail.com · +57 313 801 2728