



Jose Antonio Cid Montero

Senior Fullstack Engineer | TypeScript, NestJS, Next.js | 11+ Years of Experience
Software Engineer | Java Specialist | IoT, Healthcare Tech & High-Performance Applications

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Senior Fullstack Engineer | TypeScript | NestJS | Next.js | Cloud & Containers

🎯 **Backend Software Engineer with 11+ years building secure, scalable healthcare and enterprise systems.** Specialized in **healthcare interoperability (HL7, POCT)**, microservices, and **data integrity for sensitive information**. Proven track record working in **fully-remote, asynchronous teams** delivering mission-critical applications. Passionate about **meaningful engineering work** that improves people's lives through technology.

💡 I've contributed to and led projects with high technical and organizational impact—from building **complex medical IoT applications** (like Zoetis Fuse), to launching and maintaining high-performance **mobile games**, and developing **video bingo games** for **physical casino machines**. I also created **internal web tools** for a major university.

🔧 My core stack includes: **Java (8-17)**, **Spring Boot**, **REST APIs**, **TDD**, **Maven**, **Jenkins**, **SonarQube**, **Docker**, **Kubernetes**, **Azure**, **MySQL**, **MongoDB**, **Multithreading**, **Schedulers**, **OAuth2**, **JWT**, **Git**, **Linux (CentOS scripting)**, **AngularJS**.

🌍 I am a collaborative and proactive team player who enjoys working in international and agile environments. I value **clear communication** and believe that sharing knowledge and constructive feedback are key to collective success. With a strong **analytical mindset**, I focus on finding simple and elegant solutions to complex problems while maintaining high standards of code quality. I am highly **adaptable**, eager to learn new technologies, and always stay up to date with the latest developments in the Java ecosystem. My sense of **responsibility** and **continuous improvement** mindset help me drive projects forward efficiently and reliably.

EXPERIENCE

Freelance Fullstack Engineer HUBDANCE PTE. LTD.

05/2026 - Present, Mainz, Germany

Kadens is a modern full-stack platform built for a Singapore-based client (HUBDANCE PTE. LTD.), designed to streamline complex operational workflows. The product is a TypeScript-first monorepo with a NestJS 11 backend and a Next.js 16 frontend, serving international users with real-time features, payment processing, and robust background job pipelines. Developed remotely in a lean, async team with direct client ownership and end-to-end delivery responsibility.

Kadens

- Full-stack development in TypeScript across backend (NestJS 11) and frontend (Next.js 16), building REST APIs, real-time communication with Socket.IO, and end-to-end product features.
- Database design and optimization with PostgreSQL and Drizzle ORM, including schema migrations and query optimization for performance-critical operations.
- Asynchronous job processing with Redis and BullMQ for background task management, ensuring reliable execution of long-running operations.
- Error tracking and observability with Sentry, enabling rapid identification and resolution of production issues.
- Monorepo architecture with Turborepo and pnpm, maintaining clear package boundaries and efficient dependency management.
- Infrastructure and deployment on Railway, with automated CI/CD pipelines and environment management.
- Git workflow with code review, PR management, pre-commit hooks, and conventional commits for a clean and auditable project history.

Senior Java Backend Engineer Seidor Opentrends

06/2019 - 05/2026, Barcelona

Zoetis

Worked on the development and maintenance of Fuse Connectivity, Zoetis' solution for integrating and managing veterinary diagnostic devices in clinics and laboratories. Fuse is an **IoT** device deployed in clinics that connects laboratory analyzers with clinical systems and securely transmits medical data. The backend system is a Java **monolith**, which communicates with a separate **microservices**-based backoffice platform used for remote management and reporting.

- Backend development in **Java**, including the migration from **Java 8 to Java 17**.
- Following **clean code** and **TDD** principles.
- Work with standard protocols such as **HL7**, **ASTM**, **POCT**, and **API**.
- Built **ETL pipelines**, ensuring data integrity and compliance for sensitive healthcare information
- **Integrated with external healthcare systems** and third-party **APIs**, implementing robust error handling and data validation for clinical workflows.
- Management and optimization of **MySQL** and **MongoDB** databases.
- Implementation of **background tasks** using **schedulers** and **multi-threaded processes**.
- Integrated **authentication and authorization** mechanisms using **OAuth2** and **JWT**, ensuring secure data exchange.
- Worked with **Docker** containers and **Kubernetes-based microservices** deployed on **Microsoft Azure**.
- Generation of **PDF reports** and development of internal **back-office features**.
- Support for **internationalization** and compliance with country-specific regulations.
- Development of **automation scripts** and system tasks for **CentOS Linux** environments.
- Developed and maintained **unit and integration tests** using **JUnit** and **Mockito** in a Continuous Integration environment with **Jenkins**, **Sonar**, **Maven**, and **Git**.
- Occasional collaboration on frontend features using **AngularJS**.
- Handling **data flow from Fuse devices** to the **back-office microservices**, enabling remote monitoring and control of deployed devices.

Key achievements	
• Successfully integrated multiple diagnostic devices into Fuse, deployed across veterinary clinics worldwide. • Improved system performance, stability, and end-to-end data traceability. • Contributed to the long-term evolution and robustness of a critical product in Zoetis' diagnostic ecosystem. • Collaborated in an international agile team using Scrum methodology. • Ensure best practices in code quality, test automation, and CI/CD pipelines using Jenkins and Sonar.	
UPF Worked as a backend developer within the internal development team at Universitat Pompeu Fabra, contributing to the creation and maintenance of internal management tools and web applications aimed at improving administrative processes for students and staff.	
• Developed Java backend services for web applications used by students and administrative personnel. • Integrated applications with Oracle databases. • Delivered tools that streamlined recurring administrative procedures for thousands of students. • Contributed to the modernization of internal applications through best development practices and continuous improvement.	
Java Software Engineer (Mid-Level) S4Gaming	02/2018 - 05/2019, Barcelona
• Successfully contributed to the launch of several new titles within the OGames product line for arcade machines. • Improved performance and stability of games already in production. • Implemented new gameplay mechanics and game modes to enhance player engagement. • Adapted games for compliance with market-specific regulations and hardware configuration.	
Unemployed	02/ 2017 - 02/2018, Barcelona
C++ Junior Engineer Digital Legends	01/2015 - 02/2017, Barcelona
• Delivered consistent, high-quality UI across two major mobile titles with millions of downloads. • Collaborated with UX/UI designers to translate wireframes and mockups into interactive components. • Connected UI elements with gameplay and backend systems (e.g., inventory, matchmaking, in-game store, live events). • Supported all stages of the development cycle, from early prototypes to global release and live events.	
Master's in Video Games University Pompeu Fabra	08/2013 - 01/2015, Barcelona
Java Junior Developer T-systems Iberia	01/2013 - 08/2013, Barcelona
Contributed to a regional public healthcare project for the Catalan Health Service (Servei Català de la Salut), focused on the migration and integration of hospital information systems.	
• Designed and implemented data extraction, transformation, and loading (ETL) logic in Java, connecting to InterSystems Caché via JDBC. • Implemented data validation and integrity checks to ensure safe and consistent migrations. • Enabled dynamic configuration through external files to support multiple hospital environments with minimal changes. • Reduced migration time and human error compared to manual processes.	

EDUCATION

Master's in Video Games Development Minor in Programming • Universitat Pompeu Fabra	09/2013 - 01/2015, Barcelona
Bachelor's Degree in Computer Science Minor in Computing • Universitat de Barcelona	09/2009 - 09/2013, Barcelona
Spanish Baccalaureate <i>Science & Technology Track</i> • Amor de Dios	09/2007 - 09/2009, Barcelona
Compulsory Secondary Education (ESO) Amor de Dios	09/2003 - 09/2007, Barcelona

SKILLS

Languages & Frameworks: Java (8–17), Spring Boot, SQL, MongoDB, Angular, React
Tools: Git, Maven, Jenkins, JUnit, Linux
Soft: Strong communication • Problem-solving mindset • Team collaboration • Adaptability • Attention to detail • Continuous learning • Empathy

Languages

Spanish: Native | English: Fluid (B2) | Deutsch: Basic (A2)