

# DAVID BERNAL

Software Architect

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## PROFILE

Software Architect with over 12 years of experience designing and implementing distributed, scalable, and resilient applications, with a strong focus on e-commerce platforms and high-performance enterprise solutions. Specialized in microservices architectures and cloud-native strategies, with hands-on experience in cloud environments as well as on-premise systems. I have led the design of mission-critical systems capable of processing millions of transactions per day, leveraging advanced architectural patterns such as Event-Driven Architecture, CQRS, Transactional Outbox, and Change Data Capture, using both SQL and NoSQL databases to ensure integrity, performance, and scalability. Despite my role as an architect, I proudly consider myself an eternal junior developer, driven by curiosity and a strong commitment to continuous learning. I'm passionate about staying up to date with the latest trends, technologies, and best practices. I thrive on collaborating with stakeholders to transform business needs into impactful technical solutions, fostering a culture of technical excellence, continuous improvement, and teamwork.

## EMPLOYMENT HISTORY

- ❖ **Software Architect, Inditex** ..... Sep 2022 — Present  
Madrid
  - Collaborated with cross-functional teams to design, develop, and implement scalable solutions in the Product & Catalog domain, enhancing product management processes and improving customer engagement on the e-commerce platform.
  - Contributed to performance optimization for the Grids, Navigation, KPIs and Feedex teams by refining and modernizing solutions, supporting the migration from legacy systems, and improving product availability on the platform.
  - Contributed to performance optimization of the Grids team by refining and modernizing solutions, supporting the migration from legacy systems, and improving product availability on the platform.
  - Engineered high-performance IT solutions using Kafka, Spring Boot, gRPC, CouchDB, Solr, MongoDB and PostgreSQL, ensuring scalability, reliability, and adaptability in a fast-paced digital marketplace.
- ❖ **Software Architect, Profile software services** ..... Oct 2020 — Aug 2025  
Madrid
  - Led the migration of stand-alone applications to a Kubernetes-based environment, enhancing scalability, reliability, and deployment automation.
  - Established and promoted best practices in operational excellence, ensuring high availability and performance of cloud-native applications.
  - Designed and implemented development process improvements to support future cloud expansion projects, focusing on scalability, maintainability, and team efficiency.
- ❖ **Back-end Tech Leader, Mercury TSF** ..... Feb 2017 — Oct 2020  
Bogotá
  - Implemented a solution for the export and management of quick messages between banking entities, ensuring efficient integration with external clients.
  - Led the migration from SVN to Git and promoted the adoption of unit testing with JUnit—an initiative that laid the groundwork for future transitions to a microservices architecture.
  - Collaborated with cross-functional teams to enhance code quality and improve development cycles, maintaining a strong focus on continuous improvement.
- ❖ **Senior Developer, Entelgy** ..... Aug 2013 — Feb 2017  
Bogotá

Led the analysis and migration of BBVA Colombia's legacy architecture to a microservices-based model, designing and implementing RESTful services to interface with COBOL systems.

- Successfully delivered the migration using API-first principles and focusing on building resilient, high-availability services aligned with enterprise standards.
- Selected to lead the architecture rollout at BBVA Continental (Peru), acting as Technical Lead and ensuring seamless knowledge transfer and adaptation to local infrastructure.
- Coordinated cross-country technical teams, provided mentoring to junior developers, and promoted best practices to ensure consistency, performance, and long-term maintainability across both implementations.

## ❖ Junior developer, Banco de Bogotá ..... Jul 2011 — Aug 2013 Bogotá

- Contributed to the migration of the bank's legacy transaction messaging system to a modern, user-configurable web application, developed using Java with JSP and JavaScript, significantly improving flexibility and maintainability.
- Supported the development of the "International" module, a new tool designed to manage international banking operations from internal branches. The solution was built using Java, EJB, JSP, JavaScript, and jQuery.
- Collaborated with cross-functional teams to gather requirements and ensure alignment with business goals.

## EDUCATION

## ❖ Universidad ECCI de Colombia ..... Feb 2012 — Nov 2019 B.Sc. in Computer Science ..... Bogotá

Specialized in Software Engineering with a strong focus on developing secure and scalable systems. Final project involved automating 10 dental clinics, resulting in efficient systematization that improved operational performance and user experience, earning a top grade of 5. Demonstrated expertise in building robust, user-centered solutions with a focus on reliability and scalability in healthcare environments.

## SKILLS

|                                  |                  |
|----------------------------------|------------------|
| Team Development .....           | Docker .....     |
| Microservices Architecture ..... | Linux .....      |
| Software Design Patterns .....   | Git .....        |
| Spring Framework .....           | MongoDB .....    |
| AI Integration .....             | Solr .....       |
| CI/CD Pipelines .....            | CouchDB .....    |
| Java .....                       | Redis .....      |
| Kotlin .....                     | PostgreSQL ..... |
| Apache Kafka .....               | Grafana .....    |
| RabbitMQ .....                   | ELK Stack .....  |

## LANGUAGES

Spanish ..... *Native speaker*      English ..... *B2*

## HOBBIES

*I enjoy writing tech articles and sharing insights with the community. Read more at: <https://medium.com/@leo.bernal1946>*