

Julio Cesar Forero Orjuela

SOLUTION ARCHITECT | AI & CLOUD ENGINEER

CONTACT INFORMATION

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 - Portfolio: [Julio Cesar Forero - Agile Architect & Technical Lead](#)
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PROFESSIONAL SUMMARY

Software Architect with over 10 years of experience in designing and implementing enterprise solutions that combine Artificial Intelligence and Cloud Computing. Experienced in architectural frameworks and models (TOGAF, C4 Model), API design patterns, REST, microservices, and agile methodologies. Proven track record of technical leadership with multidisciplinary teams and in designing scalable architectures that achieved 25–60% improvements in operational efficiency. Strong experience in technical documentation using UML, AS-IS/TO-BE methodologies, and architectural artifacts for views and viewpoints, ASRs. Currently focused on deepening knowledge in modern technologies such as hexagonal microservices, Kubernetes, advanced cloud computing, and AI architectures.

PROFESSIONAL EXPERIENCE

Accion Point - Toolnology Colombia | Bogotá, Colombia

LowCode Specialist in Artificial Intelligence & Presales | 2023 – 2025

- **AI Solution Architecture:** Designed and implemented AI-based solution architectures using GPT, LLM, RAG, NLP, and OCR for process automation

in Insurance, Leather Goods, Logistics, Transportation, and Legal industries.

- **API and Microservices Design:** Implemented microservices architectures with REST APIs and AI assistants, reducing task processing times by up to 60% through automation and integration of various services/providers.
- **Chatbot Architecture:** Designed and documented conversational chatbot architectures with GPT, RAG, API Chat, including technical diagrams/documentation that improved satisfaction and efficiency for clients and prospects.
- **Technical Leadership:** Led technical training sessions and talks about emerging technologies in AI, LowCode, Process Automation, and agile/DevOps methodologies.

Accion Point | Bogotá, Colombia

Senior Software Developer – Technical Lead in LowCode Development | 2017 – 2023

- **IDP Architecture – Single Sign-On:** Led architectural design and development of the IDP app using the C4 Model for documentation, integrating Active Directory, CRM, and third-party applications via an API orchestration bus, ensuring SSO across nationwide financial mission-critical apps.
- **Core Industrial Migration Architecture:** Led the design and migration of two core applications in the graphic industry using AS-IS/TO-BE methodologies, integrating transportation/logistics via REST APIs with the warehouse, inventory, and shipping systems.
- **Annual Budget App Architecture:** Designed and developed MVC architecture for an annual budgeting web app for military operations, integrating CRM via REST APIs with C# and SQL Server.
- **Financial Validation Architecture:** Developed blacklists validation and reporting architecture for debit card transactions in the financial sector, integrating Bantotal banking core with Oracle & Java LowCode technology.
- **BPM Process Architecture:** Optimized audit processes using BPMN and scripts for retail, deploying BPM solutions with multi-database engines to improve operational management by over 35%.

- **Multi-platform Financial App Architecture:** Implemented and maintained web/mobile (iOS/Android) app architectures for mixed financial/insurance entities, integrating Core SAP via SOAP and CRM via REST APIs for credit/insurance inquiries.
- **Cadastral System Architecture:** Designed and refactored cadastral management system for Catastro de Salta, Argentina, enabling unique property tracking and integration with Mercado Pago payment gateway.

Greenggers | Bogotá, Colombia

Software Analyst GX LowCode Engineer | 2016 – 2017

- **"Do" Community Management Product:** Participated in the development of "Do" community management platform using GeneXus LowCode (.NET) as part of a 5-developer team.
- **MVC Architecture with REST Services:** Implemented MVC architecture with REST services for inter-module communication, using SQL Server and C# .NET.
- **Mobile Services Development:** Developed mobile service layer and inventory management modules for veterinary clinics.
- **External API Integration:** Integrated APIs such as Google Maps, SMS, and email for location and communication functions.
- **Medical Management MVP:** Designed and developed MVP app for medical management and routing, connecting doctors and patients.
- **Cloud Deployment:** Participated in successful cloud production deployments on EC2 and RDS, implementing solutions nationwide for clinics.

EDUCATION

Universidad de los Andes | Bogotá, Colombia

Master's in Software Engineering (MISO) | 2023 – 2025 (Final Semester)

- **Key Courses:** Full Stack Development, Software Architecture, Cloud Computing (AWS/GCP), DevOps, Automated Testing.
- **Architecture Projects:** Design of microservices, cloud architectures, and AI solutions as part of the curriculum.

CERTIFICATIONS

- **AWS Solutions Architect – Associate (In Progress)**
 - **SCRUM Fundamentals (SFC)**
 - **GeneXus Workflow BPM – Certified**
 - **Docker – Practical Guide for Developers**
 - **Airtable – NoCode Databases**
 - **Latam Architecture Day 2025 – Badge**
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TECHNICAL SKILLS

Software Architecture (Professional)

- **Frameworks: TOGAF, C4 Model, UML**
- **Patterns: MVC, Event-Driven Architecture, MVVC, Microservices**
- **API Design: REST, SOAP, GraphQL, API Gateway**
- **System Integration: Message Queues, Event Streaming, Service Mesh**
- **Design Methodologies: AS-IS/TO-BE, Architectural Artifacts, Application Catalogs**
- **Software Quality: Testing, Code Review, Clean Code, SonarCloud**
- **Testing: Jest, Pytest, Selenium, Cypress (E2E automation)**

Technologies

- **Cloud Architecture: AWS, Google Cloud Platform (GCP), Multi-cloud**
- **AI Architecture: AI Microservices, RAG, LLM, MLOps**
- **Design Patterns: Microservices, Event-driven, CQRS, Saga**
- **Integration: API Gateway, Service Mesh, Event Streaming, Message Queues**

Artificial Intelligence & Machine Learning

- **Language Models:** GPT-4, Claude, Gemini, Mistral, Groq, Llama
- **Frameworks:** LangChain, LlamaCloud, LlamaParse, PyTorch, Hugging Face
- **Processing:** NLP, OCR, RAG, LM Arena, Transformers
- **AI Architecture:** MLOps, Model Serving, A/B Testing, Model Monitoring

Cloud & DevOps

- **Platforms:** AWS (EKS, Lambda, EC2, RDS, S3), GCP (Vertex AI, AutoML)
- **Containers:** Docker, Kubernetes
- **CI/CD:** Jenkins, Git, GitHub Actions, GitLab CI
- **Infrastructure:** Terraform, Ansible, Infrastructure as Code

Programming Languages & Frameworks

- **Python** (Flask, FastAPI), **JavaScript**, **TypeScript**, **React**, **React Native** EXPO
- **Low-Code:** GeneXus, RAD Systems

Testing & Quality Assurance

- **Frontend Testing:** Cypress (E2E automation), Selenium (browser automation)
- **Backend Testing:** Postman (API testing), JMeter (performance testing), Pytest, Cucumber
- **Architecture Testing:** Load testing, performance validation, integration testing
- **Quality Practices:** TDD, BDD, automated testing pipelines

Databases & Tools

- **Relational:** SQL Server, MySQL, Oracle, PostgreSQL
- **NoSQL:** MongoDB, DynamoDB, Redis
- **Vector:** Pinecone
- **AI Tools:** Airtable, Power Automate, n8n, Make
- **Project Management:** Jira, Microsoft Project, Kanban boards, GitHub Projects

- **Collaboration:** Microsoft Office Suite, Miro, Figma
 - **Documentation:** GitHub Projects (tracking), GitHub Wiki (tech docs), mermaid, gerkin, Lucidchart, Draw.io
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SOFTWARE ARCHITECTURE

Application of reference frameworks and models (TOGAF, 4+1 Views, C4 Model) for structuring enterprise and system architectures. Creation of architectural artifacts: context, component, deployment, information, and concurrency diagrams; documentation of decisions (ADRs) and app catalogs. Use of architectural patterns and styles (Microservices, Event-Driven Architectures, API Gateway, Service Mesh, MVC) to design scalable, secure, and highly available solutions. Design of architectural evolution processes (AS-IS/TO-BE) and analysis of quality trade-offs (performance, security, availability, scalability).

Implementation of architecture experiments to validate hypotheses associated with significant requirements (ASRs), applying tests for performance, latency, resilience, and security. Integration of agile methodologies in architectural design: iterative/incremental documentation, quality scenario experimentation, and business requirements prioritization.

SOFT SKILLS

Leadership & Architecture Management

- **Technical leadership of multidisciplinary teams (up to 10 people)**
- **Project management of complex solution architectures**
- **Training and mentoring of architects and developers**
- **Coordination of multicultural teams in international projects**

Architectural Problem-Solving

- **Business requirements analysis and technical solution design**
- **Design of scalable architectures and distributed systems**
- **Process optimization and energy efficiency improvements**
- **Implementation of AI solutions for complex process automation**

Communication & Collaboration

- Technical presentations on solution architecture to stakeholders using PowerPoint and Miro
 - Technical documentation of architectures and design patterns with Microsoft Word and GitHub Wiki
 - User training with structured materials for deployed systems
 - Teamwork in multicultural/multidisciplinary settings with collaborative tools
 - Cross-functional team coordination using Jira workflows and Kanban methodologies
 - Collaborative design and wireframing with Figma for solution visualization
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KEY PROJECTS

IDP Architecture – Single Sign-On | 2021 – 2022

- Led the architectural design of federated identity application using agile methodologies and C4 Model framework with a team of 7 members.
- Participated in API orchestration bus design for multi-system integration (Active Directory, CRM, third-party apps).
- Coordinated architecture design sessions using Miro and technical documentation with UML and C4 models.
- *Result:* Successful SSO implementation among mission-critical applications with scalable and well-documented architecture.

Core Industrial Migration Architecture | 2020 – 2023

- Led core application migration architecture using AS-IS/TO-BE methodologies with a cross-team of 10 professionals.
- Designed logistics/service integration architecture with inventory systems via REST APIs.
- Managed architecture roadmap and deliverables using Microsoft Project and C4 documentation.

- ***Result:*** Seamless migration with no service interruptions and documented architecture.

Multi-platform Financial Application Architecture | 2019 – 2021

- Collaborated in architecture and maintenance of web & mobile (iOS/Android) app for financial and insurance entity.
- Integrated SAP Core via SOAP and CRM via REST APIs for credit/insurance queries.
- Implemented interactive dashboard with real-time reporting and agile API REST access.
- ***Result:*** Significant improvements in customer service quality/efficiency, reducing response times in commercial inquiries.

LANGUAGES

- Spanish: Native
- English: B2 (Professional proficiency)

REFERENCES

Professional

- Justo Jimenez | Help Desk Analyst | Accion Point | +57 312 384 9479
- Eder Alvarez | Development Lead | Accion Point | +57 301 311 9198

Personal

- Maria Scoth | Software Analysis & Design Specialist | +57 302 284 5583
- Alba Marin | Account Manager | +57 313 835 6736

References available upon request