



MIGUEL DE LA OSSA ABELLÁN

Senior Software Engineer
/ Full-Stack / Mainframe
& Java

Contact

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About me

Software developer and architect with 30+ years of experience in analysis, design, development, and maintenance of complex systems in Mainframe, Java, and distributed systems environments. Extensive background in banking, retail, payment systems, ETL, integration, and microservices, combining legacy technologies (COBOL, CICS, DB2, Oracle) with modern stack (Java, Spring, containers, Kafka, Docker, Kubernetes). Currently doing research with AI Agents and focused on remote opportunities where I can contribute expertise in backend development, integrations, legacy modernization, and requirements analysis.

Keywords / AI Tags

Senior Software Engineer, Full-Stack Developer, Backend Developer, Mainframe Developer, Java Developer, COBOL Developer, .NET MAUI, Android, Spring Boot, Microservices, REST APIs, Oracle, PL/SQL, DB2, Kafka, Docker, Kubernetes, Unix, Linux, IBM Z, CICS, TSO, ISPF, REXX, PL/I, ETL, Payments, Retail, Banking, Anti-Money Laundering, Remote Work, Legacy Modernization, Software Architecture.

Experiencia profesional

09/2025 - 11/2025

FULL-STACK DEVELOPER

QONTINUUM

- Development of mobile applications for Android using Java and Android Studio.
- Participation in full-stack design and development, applying best programming practices and version control.

Technologies: Java, Android Studio, Git, REST.

Education

UOC | 2004 - 2005

Postgraduate Microsoft e-Business
.NET Developer

UOC | 2008

Computer Engineering

Escola Santa Anna | 1994

FPIII Management Information
Systems

Technical Skills

- Languages:** COBOL, C, C++, Java, Python, BASIC (legacy), DataFlex (legacy)
- Back-end / Frameworks:** Spring, Spring Boot, JPA/Hibernate, REST, Microservices, WebFlux, WebFlux.fn, Spring Cloud Gateway
- Databases:** Oracle, PL/SQL, DB2, MySQL, PostgreSQL, Teradata
- Mainframe / IBM Z:** CICS, DB2, ISPF, JCL, TSO, z/OS, Hercules
- DevOps / Infraestructure:** Docker, Docker Compose, Kubernetes, Kafka, Maven, Flyway
- Operating Systems:** Unix, Linux, AIX, POSIX, shell scripting
- Web / Front-end:** HTML, CSS, JavaScript
- Other:** ETL, EDIFACT, XML, encryption, middleware integration, source versioning, batch process optimization

Professional Experience

06/2019 - 06/2025

JAVA DEVELOPER

APLICACIONES EN INFORMÁTICA AVANZADA

- Corrective and evolutionary maintenance of an AML (Anti-Money Laundering) application deployed at a banking sector client.
- Development of new features, query optimization, and production support in coordination with the client's technical teams.

Tecnologies: Java, Oracle, PL/SQL, Struts, MVC, Eclipse, Maven, Mockito, SVN, JavaScript, CSS, Unix.

05/1999 - 05/2019

SOFTWARE ARCHITECT / SENIOR DEVELOPER
MANGO

First Stage – Payment Systems and POS

- Assigned to Brazil to develop the bank card payment system (TEF), using C and COBOL.
- Development of POS purchasing software and a universal software for fiscal devices across multiple countries.

Second Stage – Datawarehouse and ETL (Teradata)

- Creation of all staging load scripts for the executive dashboard.
- Data transformation using ETL tools, ensuring quality and performance in batch processes.

Third Stage – Mainframe IBM/AIX, ERP , and Middleware

- Lead programmer on Base Software team working on Mainframe IBM/AIX.
- Adaptation of corporate ERP to UTF-8 for multilingual support (including Chinese and Russian).
- Automation of migration from RM/COBOL to Micro Focus COBOL.
- Collaboration with Systems team to optimize mainframe performance and Oracle migration.
- Development of source code versioning software and optimization of batch and cron processes.
- Implementation of Enterprise Server and middleware layer to connect mainframe with other systems.
- Work with EDIFACT, XML, encryption, Semitic language transliteration, POSIX, B2B integrations.

Tecnologies: COBOL, C, C++, POSIX, Java, Python, Oracle, PL/SQL, Unix, Shell scripting, Teradata, ETL, EDIFACT, XML.

Soft Skills

Requirements analysis, problem-solving, research and development, teamwork, mentoring capability, business communication, and multicultural team collaboration.

Languages

- Spanish / Catalan: Native
- English: B2
- Portuguese: Conversational

Additional Information

- Driving license categories B and A2, own vehicle
- Availability for 100% remote work and occasional travel if project requires it

Professional Experience

09/1997- 04/1999

SENIOR ANALYST PROGRAMMER

PUNT INFORMÀTICA

- Development of Billing solutions using COBOL on Unix systems with VT220 terminals.

Tecnologies: COBOL, Unix, VT220.

05/1995 - 08/1996 09/1989 - 10/1992

DEVELOPMENT MANAGER

LEMUR INTERNACIONAL

- Maintenance and extension of Billing, Distribution, and Inventory applications.
- Development on both Host and PC, managing complete application lifecycle.

Tecnologies: COBOL (Mainframe and PC).

Certifications and Relevant Training

- 2025 – Networking Basics (Cisco)
- 2025 – Introduction to Cybersecurity (Cisco)
- 2025 – Ciberseguridad Avanzada en Entornos de las Tecnologías de la Operación (IFCT0050)
- 2025 – Spring Boot 3, Spring Framework 6 (Udemy)
- 2024 – Generative AI for Software Development – DeepLearning.AI (Coursera)
- 2024 – Mainframe CICS Developer Training
- 2024 – IBM Z Xplore (Concepts, Advanced, All Star)
- 2024 – The Complete Mainframe Professional Course – 4 Courses in 1
- 2023 – 100 Days of Code: The Complete Python Bootcamp
- 2019–2018 – Several courses in Spring, Data Science, WordPress, AI, Project Management, and more.