Néstor Rubén Marsollier

Contact Information

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Personal Information

- **Languages**: Spanish (native), English (advanced)
- **Birth Date**: 10-15-1976

Education

- **Degree**: B.S. Computer Systems Engineering
- **Institution**: UTN Universidad Tecnológica Nacional, Mendoza, Argentina

Professional Summary

Experienced Android and Backend developer with a strong background in teaching and creating tutorials. Skilled in various programming languages and frameworks, with a refocused on Backend development since 2024 and Kotlin since 2012.

Skills

Backend Developer

- **Experience**: Since 1995
- **Experience**: Senior backend developer with expertise in monolith, SOA, and microservices architectures, including DDD when supported by the language.
- **Technologies**: GoLang, Java, Kotlin, Typescript, Javascript
- **Frameworks**: JSP, EJB 2 and 3, Spring stack, REST applications
- **Databases**: SQL (MySQL, PostgreSQL, Oracle), NoSQL (MongoDB), Key-Value (Redis)
- **Key Skills**: High-performance monolith applications, direct access, various ORMs
- **Code Samples**:
    - Microservices Demo app in Go with Clean Architecture,
    - Go functional programming project,

Android Native Developer

- **Experience**: Since 2011

- **Technologies**: Android SDK, Kotlin, Jetpack Compose, Kotlin Multiplatform, Espresso, JUnit4, SonarQube, Jacoco, Apollo (GraphQL), MVI architecture, Coroutines with flows, Dagger/Hilt, Navigation framework, DataDog, Jira, Figma, Confluence, Slack
- **Key Skills**: Kotlin, Koin, Google Services, GraphQL, REST, Retrofit, Room Database/SQLite, JUnit, Espresso, Jacoco, Hilt, Dagger, Reactive Paradigm, MVVM, MVC, MVI
- **Roles**: Technical Leader for Mobile at MercadoPago, Eventbrite
- **Architect**: MercadoPago
- **Methodologies**: Agile, Scrum, Jira, Figma, Confluence, Slack, Jenkins
- **Companies**: Dept, PayPal, MercadoPago, Mercadolibre, Eventbrite, Athos
- **Code Samples**:
    - Fat Measurements in Kotlin with MVI
    - Nasa Pictures in Compose Multiplatform

Teacher

- **Institution**: UTN (University)
- **Courses**: Microservices Architecture
- **Code Samples**: Microservices Architecture

Personal Projects

Professional Experience

AirBnb

Sr Software Developer
Duration: 2024 - Present
Project: Viaduct Open Source

- Working on software refactoring to make Viaduct available Open Source.
- **Methodologies**: Waterfall.
- **Architecture**: Open Source Framework.
- **Languages**: Kotlin - Java.
- **Libraries**: Apollo Federation.

Dept Argentina

Principal II Android Developer
Duration: 08/2023 - 04/2024
Project: Prismacolor+ **Achievements**:

- Caught up within 6 months on an iOS project that had started 3 months earlier.

- Full refactor to apply a solid app architecture.

- Led the development of Prismacolor+, a customer acquisition project.

- Oversaw the architecture and development of the Android platform.

- Coordinated with cross-functional teams to ensure seamless integration and delivery of features.

- Applied best practices for code quality, testing, and deployment.

- Mentored junior developers and provided guidance on architectural decisions.

- **Methodologies**: Agile.

- **Architecture**: Eventual MVI.

- **Languages**: Kotlin.

- **Libraries**: Jetpack Compose, Kotlin MP, EXO Player.

- **Design Patterns**: MVI, Dependency Injection.

- **Tools**: Figma, Slack, Azure.

Backend Sr Developer
Duration: 08/2023 - 04/2024
Project: Financial software **Achievements**:

- Maintain and develop new features in.
- Applied best practices for code quality, testing, and deployment.
- **Methodologies**: Agile.
- **Architecture**: Eventual MVI.
- **Languages**: Golang.
- **Libraries**: Gin, Postgresql, Gomock.
- **Design Patterns**: SOLID, Dependency Injection.

PayPal

Sr Android Developer
Duration: 09/2021 - 08/2023
Project: Mastercard Credit Card Benefits **Achievements**:

- Reach 98% of code coverage.

- Built the Android UI for Mastercard Benefits.

- Created engagement screens, account summary, transaction details, and payment schedules.

- Implemented event-driven architecture using MVI, Coroutines with flows, and Dagger/Hilt for dependency injection.

- Collaborated with cross-functional teams to ensure seamless integration and delivery of features.

- Conducted code reviews and applied best practices for code quality and testing.
- **Methodologies**: Agile.
- **Architecture**: Event-driven, Model-View-Intent (MVI).
- **Languages**: Kotlin.
- **Libraries**: Android SDK, Espresso, JUnit4, SonarQube, Jacoco, Apollo (GraphQL), Navigation framework, Dagger/Hilt.
- **Design Patterns**: MVI, Dependency Injection.
- **Tools**: DataDog, Jira, Figma, Confluence, Slack.

Mercado Pago

Technical Leader
Duration: 05/2020 - 09/2021

Backend Project: Money In - Money Out **Achievements**:

- Fully refactor a microservice.
- Designed and developed money in flows (ask for money, get paid, request income).
- Created money out flows (send money, organize contacts, pay).
- Led technical solutions and implemented core functionalities.
- Programmed 2 microservices to enhance system performance.
- **Methodologies**: Agile.
- **Architecture**: Microservices, 3 layers of abstraction, MVC.
- **Languages**: JavaScript, TypeScript, GoLang.
- **Libraries**: Amazon AWS, EDS, Object Storage, KWS, Apache Kafka.
- **Design Patterns**: Functional, Clean.
- **Tools**: Amazon AWS, Apache Kafka, MySQL.

Android Project: Money In - Money Out **Achievements**:

- Lead 12 developers.
- Refactor a complex architecture.
- Coach Jr developers up to Sr level.
- Oversaw the architecture and development of the project.

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- Designed and developed money in flows (ask for money, get paid, request income).

- Managed a team of 6 junior developers, coordinating the development of 4 modules and 3 libraries.

- Created money out flows (send money, organize contacts, pay).

- Led technical solutions and implemented core functionalities.

- Coached developers on technologies and architectures, ensuring adherence to best practices.

- **Methodologies**: Agile, Waterfall.

- **Architecture**: Event-driven, MVC, MVVM.

- **Languages**: Kotlin.

- **Libraries**: AndroidX Test, Espresso, Jetpack, OkHttp, Retrofit, ktx extensions, LiveData, Picasso, MockWebServer, PlayServices, Firebase, Gson, Google Maps.

- **Design Patterns**: Creational, Observers, State, Strategy, Command, Adapter, IoC.

- **Tools**: Jira, Bugsnag, Google Suite, Zeplin, CircleCI, GitHub, DataDog, Trello, Slack, Kafka.

Eventbrite

Senior Software Engineer II
Duration: 07/2016 - 05/2020
Project: Organizer App **Achievements**:

- I was the one person Android project against the job done by 12 iOS devs on the other app.

- Fully Refactor the app 2 times to adapt to new patterns. (java to kotlin, kotlin to MVVM reactive architecture)

- Responsible for all architectural and development decisions.

- Refactored the application twice to improve performance, maintainability, and scalability.

- Designed and implemented a fragment-based navigation system using MVC and MVVM architectures.

- Developed features using Java and Kotlin, ensuring high code quality and adherence to best practices.

- Applied event-driven architecture using MVVM, MVC, Repository, DAO (API), and various design patterns including Creational, Observers, State, Strategy, Command, Adapter, and IoC.

- Employed integrations like Jira, Bugsnag, Google Suite, Zeplin, GitHub, Slack, and Jenkins for project management and collaboration.

- Followed Agile and Waterfall methodologies to ensure timely delivery and high-quality software.

- **Architecture**: Fragment-based navigation, MVC, MVVM, Espresso, Robolectric.

- **Languages**: Java, Kotlin.

- **Libraries**: Jetpack, OkHttp, Retrofit, LiveData, Picasso, PlayServices, Firebase, Gson, AndroidX, PayPal Here, JUnit, Room, OrmLite, Analytics, Facebook Login.

- **Design Patterns**: Event-driven, MVVM, MVC, Repository, DAO (API), Creational, Observers, State, Strategy, Command, Adapter, IoC.

- **Tools**: Jira, Bugsnag, Google Suite, Zeplin, GitHub, Slack, Jenkins.

- **Methodologies**: Agile, Waterfall.

Atos Corp

Senior Developer, Architect
Duration: 01/2011 - 05/2014
Project: Redbus

- Acted as Architect and Senior Developer, leading a team of 2 developers.
- Designed and implemented web services to enhance system functionality.
- Utilized technologies including Android, JSP, Java Spring, Oracle, PostgreSQL, NFC, C++, REST.
- Managed and processed large amounts of data efficiently.
- Implemented data synchronization mechanisms to ensure data consistency across the system.
- Developed data consolidation strategies for accurate and reliable data aggregation.
- Ensured consistency control across various system components.
- Created features for card balance management.
- Implemented control over decentralized transaction processing to enhance system reliability.
- Applied object-oriented architecture using domain-driven design (DDD) principles to structure the system effectively.
- Ensured high code quality and adherence to best practices through code reviews.
- Provided mentoring and technical guidance to team members.

- **Architecture**: Object-oriented, domain-driven design (DDD).
- **Languages**: Java, JSP, C++.
- **Libraries**: Spring, NFC, REST.
- **Design Patterns**: Singleton, Factory, Observer, Strategy.
- **Tools**: Jira, GitHub, Jenkins.
- **Methodologies**: Agile, Waterfall.

Belatrix S.A.

Senior Developer
Duration: 03/2010 - 01/2011
Project: StoneRiver

- Acted as Senior Developer for the StoneRiver project.
- Developed and maintained applications using Spring, Mule, Java, and Flex.
- Worked with databases including DB2 and MySQL.
- Followed Agile methodologies and used Rally for project management.
- **Methodologies**: Agile.
- **Architecture**: Service-oriented architecture (SOA).
- **Languages**: Java.
- **Libraries**: Spring, Mule, Flex.
- **Design Patterns**: MVC, DAO.
- **Tools**: Rally, Eclipse, DB2, MySQL.

Senior Developer
Duration: 08/2009 - 03/2010
Project: Talent

- Acted as Senior Developer for the Talent project.
- Developed applications using Spring, Java, JSP, and Hibernate.
- Followed Agile methodologies and used Rally for project management.
- **Methodologies**: Agile.
- **Architecture**: Model-View-Controller (MVC).
- **Languages**: Java, JSP.
- **Libraries**: Spring, Hibernate.
- **Design Patterns**: MVC, DAO.
- **Tools**: Rally, Eclipse, MySQL.

Hewlett Packard Argentina

Specialist Developer
Duration: 02/2008 - 08/2009
Project: SABRE AACoRN System

- Acted as Senior Developer for the SABRE AACoRN System project.
- Developed applications using Java, Swing, EJB2, and Oracle.
- Worked with technologies including SABRE, Web Services, JSP, JaxWS, Axis 2, and Ant.

- Followed CMMI Level 3 standards and used tools like JIRA, Accurev, UML, StarTeam, and SAP.
- Designed and implemented core functionalities for the SABRE AACoRN System, ensuring high performance and reliability.
- Developed complex user interfaces using Swing for a seamless user experience.
- Integrated various web services and ensured smooth communication between different system components.
- Utilized EJB2 for building scalable and transactional business applications.
- Conducted code reviews and enforced best practices to maintain high code quality.
- Collaborated with cross-functional teams to gather requirements and deliver robust solutions.
- Provided technical support and training to team members and end-users.
- **Methodologies**: Agile.
- **Architecture**: Service-oriented architecture (SOA).
- **Languages**: Java, JSP.
- **Libraries**: Swing, EJB2, JaxWS, Axis 2.
- **Design Patterns**: MVC, DAO.
- **Tools**: JIRA, Accurev, UML, StarTeam, SAP.

Suris S.A.

Developer
Duration: 01/2007 - 02/2008
Project: Senectus / Vitae System

- Acted as Developer for the Senectus / Vitae System project.
- Developed applications using Java, Spring, ExtJS, and Hibernate.
- Designed and implemented REST APIs for seamless communication between client and server.
- Worked with SVN for version control, Eclipse as the development environment, and MySQL for database management.
- Ensured robust and scalable application architecture.
- Conducted unit testing and debugging to maintain code quality.
- Collaborated with cross-functional teams to gather requirements and deliver solutions.
- **Methodologies**: Agile.
- **Architecture**: RESTful architecture.
- **Languages**: Java.
- **Libraries**: Spring, ExtJS, Hibernate.
- **Design Patterns**: MVC, DAO.
- **Tools**: SVN, Eclipse, MySQL.

Imaquio S.A.

Technical Leader & Developer
Duration: 01/2002 - 01/2005
Project: Nuebus

- Acted as Architect & Technical Leader for the Nuebus project.
- Developed object-oriented applications with domain-driven design principles.
- Utilized technologies including Java, JSP, and Oracle.
- This was a system to sell long-distance tickets.
- Designed and implemented core functionalities for ticket booking and management.
- Ensured high availability and reliability of the system, which is still in operation.
- **Methodologies**: Waterfall.
- **Architecture**: Object-oriented architecture, domain-driven design (DDD).
- **Languages**: Java, JSP.
- **Libraries**: Oracle.
- **Design Patterns**: MVC, DAO.
- **Tools**: Eclipse, Oracle.

Technical Leader
Duration: 01/2005 - 01/2007
Project: Amadeus Client

- Acted as Technical Leader for the Amadeus Client project.
- Developed applications using EJB 2, Oracle, and Web Services.
- Developed JSP-based user interfaces for seamless user experience.
- This was a system to sell tickets for an airline.
- Designed and implemented core functionalities for ticket booking and management.
- Collaborated with cross-functional teams to integrate various services and APIs.
- Conducted performance tuning and optimization to enhance system efficiency.
- **Methodologies**: Waterfall.
- **Architecture**: Service-oriented architecture (SOA).
- **Languages**: Java, JSP.
- **Libraries**: EJB 2, Oracle, Web Services.
- **Design Patterns**: MVC, DAO.
- **Tools**: Eclipse, Oracle.

CRICYT

Developer, Designer, Analyst
Duration: 05/2006 - 06/2007
Project: Employee assistance control system

- Developed and designed the employee assistance control system.
- Used Java, Swing, and PostgreSQL.
- Implemented an Event Sourcing Database for reliable event tracking.
- Applied real object-oriented architecture with CQRS (Command Query Responsibility Segregation) to separate read and write operations.
- Maintained the event store for capturing application state changes.
- Projections to modify assistance motives in the past, ensuring accurate historical data.
- Provided technical support and training to users.
- **Methodologies**: Waterfall.
- **Architecture**: Object-oriented architecture, CQRS.
- **Languages**: Java.
- **Libraries**: Swing, PostgreSQL.
- **Design Patterns**: Event Sourcing, CQRS.
- **Tools**: Eclipse, PostgreSQL.

Senectus

Developer, Architect
Duration: 01/2000 - 01/2002
Project: Wine traceability system

- Engineered, conceptualized, and evaluated the wine traceability system.
- Leveraged technologies such as Fox Pro.
- Guaranteed system scalability and enhanced performance.
- Partnered with cross-functional teams to collect and refine requirements.
- Performed code inspections and enforced best practices for code integrity.
- Led a team of 3 developers.
- **Methodologies**: Waterfall.
- **Architecture**: Object-oriented architecture.
- **Languages**: Fox Pro.
- **Libraries**: N/A.
- **Design Patterns**: MVC, DAO.
- **Tools**: Fox Pro.

Altamed

Developer, Architect
Duration: 05/1998 - 01/2000
Project: Medicine insurance system

- Developed, designed, and analyzed the medicine insurance system.
- Utilized technologies including Fox Pro.
- Ensured system scalability and performance optimization.
- Collaborated with cross-functional teams to gather and refine requirements.
- Conducted code reviews and implemented best practices for code quality.
- Provided technical support and training to end-users.

- **Methodologies**: Waterfall.
- **Architecture**: Object-oriented architecture.
- **Languages**: Fox Pro.
- **Libraries**: N/A.
- **Design Patterns**: MVC, DAO.
- **Tools**: Fox Pro.

Banco de Prevision Social

Developer
Duration: 08/1995 - 05/1998
Project: Office supply tracking system

- Developed, designed, and analyzed the office supply tracking system.
- Acted as the architect for the refactor to convert the applications to Fox Pro.
- Utilized technologies including Clipper and Fox.
- Ensured system scalability and performance optimization.
- Collaborated with cross-functional teams to gather and refine requirements.
- Conducted code reviews and implemented best practices for code quality.
- Provided technical support and training to end-users.
- **Methodologies**: Waterfall.
- **Architecture**: Object-oriented architecture.
- **Languages**: Clipper, Fox Pro.
- **Libraries**: N/A.
- **Design Patterns**: MVC, DAO.
- **Tools**: Clipper, Fox Pro.

Previous Experience

- **Technologies**: Clipper, Fox, Fox Pro, Basic, Pascal, Java, JSP, EJB, HTTP, JavaScript, HTML, Oracle, MySQL, PostgreSQL, SQL Server.

  - **Clipper**: Used for developing database applications.
  - **Fox/Fox Pro**: Utilized for building data-centric applications with a focus on performance and scalability.
  - **Basic**: Employed for early-stage programming and scripting tasks.
  - **Pascal**: Applied for structured programming and algorithm development.
  - **Java**: Leveraged for building robust, high-performance applications.
  - **JSP**: Used for creating dynamic web pages and server-side applications.
  - **EJB**: Utilized for developing scalable, transactional, and multi-tier enterprise applications.
  - **HTTP**: Applied for web communication and data transfer.
  - **JavaScript**: Used for client-side scripting and enhancing user interfaces.

- **HTML**: Employed for structuring web content.
  - **Oracle**: Utilized for managing large-scale databases.
  - **MySQL**: Used for relational database management and data storage.
  - **PostgreSQL**: Leveraged for advanced database management and complex queries.
  - **SQL Server**: Applied for enterprise-level database solutions and data warehousing.

- **Roles**: Various development and architecture roles since 1995.

  - **Developer**: Responsible for coding, debugging, and implementing software solutions.
  - **Designer**: Involved in creating software designs and architecture.
  - **Analyst**: Conducted system analysis and requirement gathering.
  - **Architect**: Designed and planned software architecture and system integration.
  - **Technical Leader**: Led development teams and provided technical guidance.
  - **Mentor**: Provided training and support to junior developers.

UTN Universidad Tecnológica Nacional

Teacher
Duration: 2013 - Present

Course: Microservices Architecture

- **Technologies**: Java, Angular, Golang, Node.js, TypeScript, Kotlin, RabbitMQ, MongoDB, Redis, Kafka.
- **Responsibilities**: Developed and taught the Microservices Architecture course.
- **Study Plan**: Program and Study Plan.
- **Code Samples**: nmarsollier.
- **Duration**: 2018 - Present.

Course: Advanced Programming

- **Technologies**: React, Node.js with TypeScript.
- **Responsibilities**: Developed and taught the Advanced Programming course.
- **Study Plan**: Study Plan.
- **Code Samples**: nmarsollier.
- **Duration**: 2013 - 2023.

Personal Project Repos

- **Nasa Pictures in Kotlin MVI**: Nasa - CMP

- Shows pictures from nasa
- MVI Jetpack Compose.

- **Nasa Pictures in Compose Multi platform**: Nasa - CMP

  - Shows pictures from nasa
  - Jetpack Compose Multiplatform.

- **Fit Fat Android App**: Fit Fat

  - Controls fat and weight in different ways.
  - MVI Jetpack Compose.

- **Fit Fat in React Native**: Fit Fat React Native

  - Same functionality as the Android app but implemented in React Native.

- **Ecommerce Microservices**: Ecommerce

  - Ecommerce microservices environment for educational purposes.
  - Includes 5 microservices written in Golang, TypeScript, Java, and Kotlin.

- **Golang Tutorial**: Golang Tutorial

  - Advanced Golang ideas and techniques.
  - Includes innovative concepts and high-quality code.

- **Battery Switch Widget for Android**: Battery Switch

  - Switches the battery charger on/off based on battery percentage.
  - Supports Tasmota.

- **Volume Widget for Android**: Volume Widget

  - A widget to control volume on Android devices.

- **My IP Widget for Android**: My IP Widget

  - Displays the local IP address in a widget.

- **QR Barcode**: QR Barcode

  - Generates barcodes from strings for demo purposes.
  - Implemented in Golang.

- **Semver Json Store**: Semver Json Store

  - Downloads text resources in mobile apps while controlling versions.
  - Implemented in TypeScript/Node.js for educational purposes.

- **Document Store**: Document Store

  - A simple document store implemented in Golang for educational purposes.

- **Card Game in React**: Card Game

  - Backend for a card game implemented in React.
  - Designed for educational purposes.

- **4 in Line Game**: 4 in Line

  - A simple game for educational purposes.

- **Crosswords Board Generator**: Crosswords

  - Generates crossword boards.
  - Includes interesting problem-solving techniques.
  - Implemented in Java.

Quick Overview of my most relevant experience

Quick Overview