ALEX VALL
Senior Software Engineer

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SENIOR SOFTWARE ENGINEER

Software Engineer passionate about technology always looking for the best solution in terms of performance, scalability, resilience and security.

I am continuously focused on improving & mechanizing as many processes as possible within the software lifecycle by applying:

- Feature branch as strategy to reach the fastest way to work with multiple developers.
- Github Actions to automate the CI/CD process.
- Hard & strong automatic code review (CodeClimate) to ensure the quality and continuous delivery to production.
- API First and automatic code generation (archetypes and conversion of OpenApi into source code) to follow best practices & establish OpenApi as source of truth.
- API versioning based on the major version & different instances for them.
- Powerful integration test (over 90% coverage) and API contract test for quality assurance.
- Automation testing in staging environment to ensure the stability of the production environment. An automatic regression test in production environment to guarantee uninterrupted service.
- Notifications on Slack and Personal Mobiles to guarantee 24/7 service.

EXPERIENCE

Principal Software Engineer
Wefox Group
Jan.2023 - Present
Barcelona (Spain)

PaaS (Platform As a Service) to improve the relation between Distributors, Brokers, Manufacturers & Final Customers.

- Lead the team to implement the foundations (control plane) of the platform.
- Design the multi-tenancy architecture of the platform taking care:
- Implementation of the foundations & architecture of the platform:

Technologies used:

`Java 17` `Spring Framework (Boot, Cloud)` `Python (AWS lambda authorizers)` `AWS RDS Postgres (RLS - Row Level Security)` `Redis (distributed cache)` `OPA (Open Policy Agent)` `AWS Lambda / Step Functions` `AWS API Gateway` `AWS EKS` `JOLT`

Principal Software Engineer (Claims domain)
Wefox Group
Jan.2021 - Jan.2023
Barcelona (Spain)

Lead the Claims team to accomplish these goals:

- New Claims API using ontology in the OpenApi definition of the damage (coverage extension) syntax definition.
- Automatic fraud detection using AI.
- Automatic car claim evaluation using AI.
- Deprecate legacy payout system & design automatic integration with finance.
- Google AI Dialogflow to facilitate the user's input of claims.

Lead the Heroku Connect (sync Salesforce data with SQL database) deprecation project. Design & implementation of a cheaper custom solution to reduce the high costs of Heroku Connect.

- Bidirectional sync between Salesforce and RDS Postgres.
- Kafka as a broker to work in async way.
- Apache Debezium with kafka connector (as CDC) to synchronize from Postgres to Salesforce.

Technologies used:

`Java 17` `Spring Framework (Boot, Cloud)` `AWS Lambdas` `AWS Step Functions` `Apache Kafka` `Apache Debezium` `Google Dialogflow Chatbot (AI)`

SKILLS & TOOLS

Frontend
Vue.js

Backend
Spring Boot

Spring Cloud

Java 17

Hibernate

Kotlin

Python

Typescript

PostgreSQL

MongoDb

Apache Kafka

AWS Step Functions

Camunda BPM

OpenApi

Git actions

UML

Kubernetes

Open Policy Agent

Amazon Verified Permissions

Salesforce

Other

Linux (Debian & Ubuntu)

macOS **Windows 10** **JIRA**

Scrum (agile) **Docker**

Senior Engineer

March.2019 - Jan.2021

Wefox Group

Barcelona (Spain)

API first adoption as a methodology to work.

- Automatic code generation for DTO's & API controllers.
- "Feature branch" as strategy to reach the fastest way to work with multiple developers.

Design a common Hexagonal Architecture for all the Microservices implementations.

- Archetype for Maven lifecycle tool.

Microservice architecture (design and implementation) for 'Backend For Frontend (BFF)' to provide services to Mobile / Web Apps.

- GraphQL API to connect Mobile and Web Apps with BFF.
- gRPC (protobuf) to connect BFF against Core Microservices.

Microservice architecture (design and implementation) for backend core to provide business rules related with the new Insurance Company called ONE.

- Step Functions and Camunda BPM for orchestration and Business Processes. Using BPMN notation. Claim coverage validation, Fraud detection. Calculate the costs of any claim.
- gRPC (protobuf) for synchronous communication between Microservices.
- Apache Kafka as a broker to work in async way.

Technologies used:

`Java 17` `Spring Framework (Boot, Cloud)` `GraphQL (Apollo)` `RDS Postgres` `Apache Kafka`
`Camunda BPM` `gRPC (protobuf)`

Senior Engineer

Dec.2014 - March.2019

Wefox Group

Barcelona (Spain)

IOS Mobile App for Switzerland market to facilitate the switch process between Insurance Companies.

- Viper architecture as a design pattern (View, Interactor, Presenter & Router).

Monolith architecture (design and implementation) for Backend For Frontend.

- Design taking care the OKR's & low budget.
- RabbitMq for async operations.
- Enterprise Java (Spring Extension) Common library for all microservices. Simplifying dependencies.
- Decoupled microservices architecture into same Github repository.

Technologies used:

`Swift` `Cocoapods` `Java 11` `Spring Framework (Boot, Cloud)` `Spring Integration`
`Heroku Connect (Sync between Salesforce & Postgres)`

Mobile Engineer

Jun.2012 - Nov.2014

Ameu8 (Everis)

Barcelona (Spain)

B2B IOS Mobile App (ipad) for Monsanto (South Africa market).

- Viper architecture as a design pattern (View, Interactor, Presenter & Router).
- Possibility to work offline. Background synchronization.
- Salesforce integration using a Java middleware (Backend For Frontend).

BCA (British Car Auctions).
Shoppers use the app to confirm bets placed by the moderator.

- IOS Mobile App (ipad) to automate car auctions. Online App using custom gestures.
- Viper architecture as a design pattern (View, Interactor, Presenter & Router).

BCP (Central Bank of Peru).
IOS Mobile App (ipad, iphone) that automates all daily tasks of any end user.

- Viper architecture as a design pattern (View, Interactor, Presenter & Router).

Technologies used:

`Swift` `ObjectiveC` `Cocoapods` `SQLite` `Java 11` `Spring Framework (Boot)` `Spring Integration`
`Salesforce`

EDUCATION

MS in Computer Science
Open University of Catalonia (UOC)
2000 - 2006   GPA: 8.5

Master
CCNA (Cisco)
2003 - 2003   GPA: 9.5

LANGUAGE

English (Medium)
Italian (Advanced)
Spanish (Professional)
Catalan (Professional)

INTERESTS

- 🏠 Home Automation
- 🏓 Table Tennis
- 🏊 Open Water Swimming
- 🚴 Cycling

ORGANIZATIONS

About Me
(https://avall.github.io/jandrinet)
since 2024

Open University of Catalonia (https://www.uoc.edu)
since 2000

Baeldung
(https://www.baeldung.com/)
since 2014

ByebyteGo
(https://bytebytego.com/)
since 2023

CTT Ciutadella
(https://www.instagram.com/c.t.t.ciutadella/)
since 2023

Senior system Analyst

Jun.2008 - May.2012

B2B IOS Mobile App (ipad) for Colomer (Revlon - cosmetics).
Revlon's sales team uses the app to sell in hairdressing salons.

- Viper architecture as a design pattern (View, Interactor, Presenter & Router).
- Possibility to work offline. Background synchronization.
- SAP integration using a Java middleware (Backend For Frontend).

Backend Application (Technotree) - Helsinki (Finland).
Messaging Server for Telecommunications Operator (Swisscom, Sonera).

- Voice mailbox (iphone), Video mailbox, SMS, Streaming, Alarms, Notifications
- Developed using JAVA open source.

Technologies used:

Swift   ObjectiveC   Cocoapods   SQLite   Java 8   Spring Framework   JAX-WS-RS (cxf)

Hibernate   JBOSS   ESB (under JBOSS) as process orchestrator.