Iván Agustín Monzón

Full Stack Software Engineer

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 8 years of experience architecting and building high-throughput distributed systems. Specialized in functional programming with Scala and JVM ecosystems, delivering solutions that handle 60k+ QPS while maintaining system reliability. Proven track record of leading technical teams and architecting complex integrations across diverse technology stacks.

TECHNICAL SKILLS

Software Development

Languages

- JVM: Scala (2.11-2.13, 3), Java (8+), Groovy
- Web: JavaScript, TypeScript

Paradigms

- Functional Programming (TypeLevel ecosystem)
- Object-Oriented Programming
- Event-Driven Architecture

Web Technologies

Frontend Frameworks

- React
- Angular
- Vue.js

Backend Frameworks

- Spring
- Play
- Dropwizard

Distributed Systems

Message Brokers

- Kafka
- Redis
- JMS

Actor Systems

- Akka

Data Storage

Relational

- PostgreSQL
- MariaDB

NoSQL

- DynamoDB
- MongoDB
- DocumentDB

Cloud & Infrastructure

AWS Services

- DocumentDB
- S3
- EC2
- ElastiCache
- CloudWatch

DevOps Tools

- Docker
- Jenkins
- Terraform
- Rancher
- GitHub

PROFESSIONAL EXPERIENCE

Founder, Programate PY

October 2024 - Present

Building product for migration opportunities.

- Architected MVP product for migration opportunities
- Researched competitors and market
- Developed product roadmap

Technical Environment: AWS, Scala 3, React native

Software Engineer, Agile Engine

October 2023 - October 2024

Global professional services company building custom software engineering solutions

- Engineered and maintained a robust backend system for Sales Compensation Plans, ensuring accurate and timely compensation calculations through strategic system improvements
- Architected and implemented integration solutions across major CRM platforms (HubSpot, SalesForce, ConnectWise), creating a flexible data model that accommodates diverse business rules
- Spearheaded cross-functional integration initiatives, establishing technical standards and fostering collaboration between internal teams and external partners

Technical Environment: Scala 2.11, Spring Framework, Jenkins, AWS (DocumentDB, S3, EC2, ElastiCache, CloudWatch), Microservices

Software Engineer, Etermax & X3M (Etermax's adtech division)

March 2022 - September 2023

Leading gaming company and its specialized AdTech division focusing on mobile gaming monetization

Core Achievements:

- Architected and maintained high-throughput ad serving systems processing 60k QPS using Scala and Akka, implementing functional programming patterns for improved reliability
- Designed distributed caching architecture using Redis and Elasticsearch, achieving 40% reduction in response time while maintaining data consistency across microservices
- Developed scalable backend services incorporating concurrent data structures and explicit state management, significantly improving system debugging capabilities
- Implemented comprehensive monitoring solutions for both business and performance metrics, enabling data-driven optimization of ad operations
- Led performance optimization initiatives for advertising space allocation, directly contributing to platform revenue growth
- Collaborated with cross-functional teams to establish and maintain high-throughput microservices architecture

Initial Role (Etermax): Focused on core ad serving infrastructure and caching strategies

Advanced Role (X3M): Led optimization initiatives and cross-team collaboration for enhanced monetization

Technical Environment: Scala (2.13), Akka, Typelevel, Java, Kotlin, Dropwizard, Redis, Elasticsearch, MariaDB, Cassandra, DynamoDB, AWS (S3, EC2, CloudWatch), Terraform

Technical Lead - Software Engineer, Redbee

November 2020 - March 2022

Digital innovation company specializing in engineering and design solutions

- Led a 6-member development team in building and maintaining a digital payment platform processing 15k QPS
- Architected microservices-based solutions using Scala and React, ensuring scalability and maintainability
- Implemented event-driven architecture using Kafka, enabling real-time data processing and system integration
- Mentored junior developers and established coding standards, improving team productivity and code quality

Technical Environment: JavaScript, TypeScript, React, Scala 2.12, Redis, Kafka, Docker, CI/CD

Full Stack Software Developer, Flux IT

June 2019 - November 2020

Enterprise IT solutions provider specializing in cloud and security services

- Developed and maintained multiple Spring-based enterprise applications including ERP, CRM and Project

Management systems

- Implemented responsive front-end solutions using Angular and Vue.js, improving user experience and application performance
- Contributed to containerization initiatives using Docker and Rancher, streamlining deployment processes

Technical Environment: JavaScript, AngularJS, Vue.js, Java 8, Groovy, Docker, Rancher

Fullstack Software Developer, Accenture

January 2016 - May 2019

Global professional services company leading in digital transformation

- Received "Great Employee of 2018" award for developing an innovative VR office tour application
- Led development of an AI-powered WhatsApp chatbot for credit loans, winning internal hackathon
- Managed business intelligence solutions using Microstrategy for LATAM streaming services company
- Developed and maintained airline client platform, implementing robust CRM services with Java Spring

Technical Environment: Java 8, Spring, JMS, Hibernate, jQuery, Microstrategy, Teradata, DataStage

EDUCATION & CERTIFICATIONS

University of Alberta — Jul 2020
Software Design and Architecture

Universidad Nacional de La Plata — May 2020
Bachelor of Applied Science - BASc, Mathematics

DataCamp — Jul 2019
Data Scientist with Python

Universidad Nacional de La Plata — Feb 2013
Bachelor of Engineering - BE