

## About me

Name Gabriel Claramunt  
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Blog <https://blog.scalents.com/>  
Github <https://github.com/gclaramunt>

I have 20 years of experience in software development, architecture, and design. Experienced in functional programming in Scala for big data systems. Worked in requirements, OO Analysis and Design, architectural design, development, and optimization of application systems in various domains like Financial Services, Insurance, and Retail. Worked in the Latin America, Caribbean, and North America regions.

## Experience

### Scalents

May. 2019 – present  
Qume Inc.  
Building the World's Fastest  
Crypto Derivatives Exchange  
<http://qume.io>

### Scalents

Oct. 2017 – present  
Principal consultant  
I've executed a variety of projects, consulting on Scala, Functional Programming, data ingest pipelines, scalable backends, and JVM optimization.

### Starbucks

Oct. 2016 -Oct. 2017  
FP Lead (contractor - remote)  
Working on the new Unified commerce platform, doing design and coding of customer event flows with kafka, akka streams, cassandra and aws.  
Functional programming/Scala guidance to the group.

### Google

Jul. 2015 – Oct. 2016  
SW developer – (contractor – remote)  
**IoT project for Alphabet Inc. Company**  
Design and development of a high reliability and scalable messaging and routing service with Scala and Google cloud  
**Google's Advanced Technology & Projects - Project ARA**  
Performance optimization for web store project – Java/Spring

### Morgan Stanley

May 2014 - Jun 2015  
SW developer – (contractor – onsite)  
End of Day Risk Calculation Engine (**RICE**) for **Interest Rate Derivatives / Fixed Income Division** team  
Working on the new End of Day Risk Calculation Engine (RICE) for Interest Rate Derivatives / Fixed Income Division team, I was responsible of optimization of the RiCE Scala code.  
  
Rewrote the post processing steps of workflow to distribute it in the custom grid services framework achieving a ten-fold reduction in post processing time and a 25% reduction of total processing time, while optimizing the memory profile, allowing to increase business volume without memory failures.  
  
Optimized the serialization/deserialization of internal application objects to halve the memory usage. Acted as the team's Scala referent, and worked on the evolution of various parts of the system.

### Autodesk

Working with Globant offshore team, was the architect for

Oct 2013 – Apr 2014	development of Buzzsaw-A360 adapter, a cloud message bus integration of a legacy file storage using Scala and akka actors. Defined the technical solution, coded the critical use cases and gave guidance and help to the other members of the team.
<b>Independent contractor</b> Jun 2012 -Sep 2013	OLAP database over spark proof of concept for San Francisco startup
<b>Precog</b> Nov 2012 -May 2013	Startup developing a whole new platform and query language for big data analytics. Working remotely as integration engineer, owning the client libraries for the REST API and creation of import tools from sql, mongo, and twitter in heavily functional Scala with Scalaz.
<b>Globant</b> Oct 2010 – Oct 2012	Software Developer - Big Data and High Performance Studio  Autodesk  Configuration module for a cloud based services coordinator and executor. Using Scala and Lift to provide a friendly UI for the configuration web services.  Loyal3 Worked in the final stage of the core Loyal3 CSOP product building before launch. Wrote UI screens with Lift's CSS transformations, core logic in Scala, storage/retrieval of data from mongoDB, unit and functional tests with cucumber-like implementation.  K12 As a remote contractor for K12Inc development team, was part of the core backend group of their courses authoring system.
<b>TCS USA</b> May 2005 – Aug 2010	(SW developer - onsite) Working as lead developer / software architect, analyzed the problem with business experts, designed an architecture to satisfy the functional and non-functional requirements, coded and unit tested the critical components in collaboration with the whole team. Acted as a Lead developer/coordinator for off-site teams.  Recognized among the TOP 1% Java developers of my company  <b>For The Home Depot:</b> Designed and leaded a team building a web application deployed in more than 2000 stores of the second biggest retailer in the US. End users love it and it was highlighted in investment analyst reports. Created and evolved an architecture now used in a family of applications. Wrote a low level XLS processing library based on Apache POI but capable of reading and writing

files bigger than 100Mb fast and with a significantly smaller memory footprint. Rewrote a group of Java batch process to get a 10 times increase in execution speed.

For **Motorola Networks**:

Using JSF and Java, design and coding of configuration module for a workflow system.

**TCS Uruguay**

Oct 2002 – May 2005

SW developer.

Worked in multiple projects as a lead developer.

**Hista Intl.**

Oct 1999 – Oct 2001

Consultant in Rational tools and OOAD with UML, RUP, Use cases and Software architecture, and lead developer for software development practice in Latin America and the Caribbean

**Education**

2012 - 2013

Functional programming, Formal program construction, Category theory - University of the Republic (UDELAR)

1994 – 1999

Computer Analyst – University of the Republic (UDELAR)

**Skills**

Programming languages Scala, Java, Haskell, C++, Python

**Presentations**

PNWScala 2014

What every (Scala) programmer should know about category theory

[https://www.youtube.com/watch?v=W67LYX\\_1J\\_M](https://www.youtube.com/watch?v=W67LYX_1J_M)

flatMap(Oslo) 2018

The (un?) reasonable effectiveness of mathematics in computer programming

<http://2018.flatmap.no/talks/claramunt>

ScaleByTheBay 2018

Swimming in the stream

<https://www.youtube.com/watch?v=gGXa1zOtZTI>

Scala reggen (a recursion schemes experiment)

<https://www.youtube.com/watch?v=FT0yDU3UL6g>

**Organizer**

ScaLATAM – First Latin American conference on Scala and functional programming

Organizer / Presenter

Montevideo Scala Meetup

Organizer