

## Rosa Gutiérrez Escudero

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I'm a software engineer with over 10 years of experience working for the web, building high-traffic, complex applications. I have an academic background and lots of enthusiasm and love for learning and just for writing code to solve problems. I thrive in collaborative environments where I can help others but I'm trusted to work autonomously and have plenty of space and possibilities to grow.

### Where I've worked and on what

#### **37signals/Basecamp** – Lead Programmer – since 2017 (remote)

[37signals](#) is the home of [Ruby on Rails](#) and what we use across all our products.

I'm currently a *lead programmer* (equivalent to staff engineer in most companies) in the Security, Infrastructure and Performance team (SIP). Besides working on all things infrastructure and security in [Basecamp](#) and supporting [our legacy apps](#), I've been instrumental in the launch of [HEY](#), our email service, working in email deliverability, spam, resiliency, authentication, security, and overall architecture of the app. SIP is also the team that historically has taken over the trickiest, most mysterious and complicated bugs and I really enjoy grabbing my magnifying glass and jumping into investigations.

Apart from the SIP team at 37signals, I did a 2-month *internship* in the SRE team and from time to time I've joined the Product team, where I've helped to build new features for both HEY and Basecamp.

#### **Plex** – Senior Software Engineer – from 2014 to 2017 (remote)

At [Plex](#) I was part of the Cloud Services team where I worked as a senior backend engineer. We were in charge of the central service that Plex servers and clients used for user accounts and profile management, subscriptions purchase and processing for premium users, a registry of media servers with connection info, sharing servers information, token-based authentication for clients and sync-list management.

#### **BeBanjo** – Software Engineer – 2014 (remote)

At [BeBanjo](#) I was part of the Projects team. I worked adding features to the backend of BeBanjo products and designing and developing integrations with our customers' platforms.

## **Tuenti - Senior Software Engineer – from 2011 to 2013 (Madrid, Spain)**

At the time, [Tuenti](#) was the largest social network in Spain, with 15 million users and 2 petabytes of data delivered per month. For most of my time there I was part of the Backend Framework team, which was responsible of the implementation and maintenance of the data access layer and caching strategies for MySQL and HBase.

I later moved onto the SOA team and worked on building a Service Oriented Architecture (SOA) framework that would allow the rest of developers in the company to build new services easily. I also implemented a service to manage Tuenti sessions, as an use case of the previous framework.

## **University of Seville - Researcher and lecturer - 2008 to 2009 (Seville, Spain)**

Before moving to work in the industry, I followed an academic path. I worked as a researcher in the I+D+I program “Computational Analysis and simulation of biological processes in cellular computing” of the Spanish Ministry of Science and Innovation. I also taught some courses such as Theory of Computability (2nd year MSc. in Computer Science) and Computing (2nd year MSc. Mathematics).

## **What I studied**

### **Imperial College London – MSc in Advanced Computing**

(2009 - 2010)

- Fully funded by 'La Caixa Foundation' fellowship.
- Finished with Distinction and graduated as top of the class, with RBS GM Prize for academic excellence and distinguished postgraduate thesis for “A Theorem prover for Equality Using Lemmas”.

### **University of Seville – Ph.D. Logic, Computer Science and Artificial Intelligence**

(2008 - 2009)

I completed the first year courses and then moved to the UK.

### **University of Seville - M.Sc. Computer Science**

(2004 - 2008)

- Graduated as top of my class, with a distinguished MSc. thesis prize for

“Topological Analysis of Magnetic Resonance Medical Images”.

- Spent a semester in Austria, in the Johannes Kepler Universität Linz, as part of the Erasmus programme.

## Other interesting bits

I love learning languages, both for humans and for computers. As an example of the former type, besides Spanish (my native language) and English, I speak and currently learn French and German. As a perhaps a bit extreme example of the latter, I did the Advent of Code challenge every day in a different language for 2 years, in [2019](#) and [2021](#) (50 languages in total). As not as an extreme example, learning other languages and frameworks is a big motivation for me in every job I've had.