José Ramón Cano Yribarren

Senior Software Engineer

Software Engineer with 13+ years of work experience building reliable and maintainable software, with passion for quality and simplicity of solutions, and for system performance and reliability. TDD and CD advocate.

Personal information

First Name	José Ramón
Last Name	Cano Yribarren
Gender	Male
Nationality	Spanish
Age	38
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Languages

Spanish	Native	
English	Fluent	*Lived abroad for 5 years. Spoken on a daily basis at work for 12 years in total.*
Dutch	Basic	

Experience

2024–2025 (currently)	**Senior Technical Lead**, *BigData*, Spain
2017–2024	**Senior Backend Engineer**, *RavenPack*, Spain
2012–2017	**Software engineer in R&D**, *The Consultancy Firm*, The Netherlands
2010–2011	**Internship at Virtual Reality Lab**, *University of Granada*, Spain

Education

2005–2011	**Engineering degree in software and computer science**, *University of Granada*, Spain

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Skills

My main areas of knowledge are the following:

Programming Languages	**Python (last ∼8 years)** Java and C# (5 years before that) C/C++ (6 years mostly in college; barely any professional experience). Currently **learning Go and Rust** with no professional experience. Touched many others: JS/TS for React, asm, Objective-C, PHP...	Infrastructure	**AWS**: ECS, EC2, Lambda, API Gateway, Athena, Kinesis, SQS, DynamoDB, etc. Proficiency at Docker and docker-compose. Knowledge of CDK
Web servers and frameworks	Fast API, flask, AWS powertools. Mostly forgotten: Ext.Net, Django, nextjs...	CI/CD	Gitlab-CI, Github actions. Proficiency at Git.
Software Design	Good practices on (real world) object oriented design, SOLID principles and design patterns. **Big Advocate for TDD**, which I practice every day for almost a decade.	Testing Libraries	**mostly Pytest**, python's unittests, Behave, Xunit, JUnit, Mocha, etc
OS	Advanced knowledge of GNU/Linux, as a daily user (for about 20 years), and some knowledge as administrator (proficient at bash scripting, CLI, services, cronjobs, etc). Also worked with Windows Server, IIS etc in the past, must most comfortable on Linux.	DB	SQL/T-SQL: Oracle, Postgress, MicroSoft SQL Server, MySQL. NoSQL: DynamoDB and ElasticSearch maily, a little of MongoDB.

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▬▬▬ Projects @ *Bigdata.com*. 2024 − 2025

Even though *Bigdata.com* is a product by *RavenPack* (read below), I think everything around it is different enough to be considered as a separate organization. I only entered the project one year before the public release of *Bigdata.com*, I was not part in the early stages, but I was in charge of creating some of the systems that are now part of it.

In inverse chronological order, the main projects I've contributed to are:

Bigdata.com - Leading Auth, Payments and Quotas	Leading the team in charge of managing everything related to Auth, Subscriptions and Quotas. **Challenges**: High availability of the Auth system. Design of permissions. High throughput of the quota system in which the rest of the system relies on. Lambdas, SQS, Kinesis streams, DynamoDB, etc.
Bigdata.com - Subscriptions and payments	Lead the implementation of an integration with a 3rd party provider. **Challenges**: idempotency and fault tolerance (webhooks).
Bigdata.com - Python client libraries	Lead the implementation of the client library for bigdata.com (bigdata-client). Maintainance of our legacy client library for the RavenPack API (ravenpackapi). **Challenges**: Design the library with focus on DX. Github actions

▬▬▬ Projects @ *RavenPack*. 2017 − 2023

Hired initially as a *fullstack engineer*, mostly in Python and React, I transitioned to a more *backend only* role after some years, learning more about infrastructure (AWS). During these years I also experienced being tech lead in many projects, being mentor to many developers, and even managed a team of developers.

In descending order, the main projects I've contributed to are:

Data Services	Maintenance of many sytems and services that are at the core of *RavenPack* (API, data querying, generation (demand and historical) of archives, main RavenPack web, etc). **Challenges**: Legacy systems. ECS, Athena, ElasticSearch, DDB, CDK, and a big etc.
Internal Tools	Managing a team responsible of the maintenance of a legacy internal tool for managing a big knowledge base of entities. Oracle. Django. Python2.7. **Challenges**: Managing and mentoring a team of developers. Improving very old systems. Reaching a middleground between business urgent needs and the stability of the system.
RavenPack Enterprise	Fullstack development of a Web application (python + React) for searching Gigabytes of content. ElasticSearch, DynamoDB... **Challenges**: Learning Python, React, AWS, etc

▬▬▬ Projects @ *The Consultancy Firm*. 2012 − 2017

The work I did at *The Consultancy Firm* was very much R&D in nature, which allowed me to learn many different languages and technologies, from iOS programming to fullstack development or PC applications.

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The Document Wizard	Our main selling project. A web application written in C# (backend) using ASP.Net, Ext.Net (frontend), MicroSoft SQL Server (persistance), ActiveDirectory (authentication), WCF (web services), etc. This application connects to *OpenText*'s *Stream Server* via it's SOAP API to generate documents based on answers to questions pre-programmed by the user.
DocWiz	An iOS app written in Objective-C that works as a client (online and offline) for *The Document Wizard*.
Augmented Documents	An augmented reality app for iOS using OpenGL, and MetaIO SDK. Proof of concept
The Apprentice	An intuitive WYSIWYG editor written in Java, with Swing for the GUI, to generate "Question" configurations for The Document Wizard. Those configurations are marshalled to a file or directly uploaded with SOAP.
Spell	A compiler that translates a language designed specifically for *The Document Wizard* (spell) to XML format. This language is created to ease the writting of configuration files, removing the overhead that XML has.
Sandd Connector	A *StreamServe* connector written in Java to sort the letters in the printing queue of a printshop based on a network file with the physical addresses in the Netherlands and according to a sorting and classification algorithm, so that the letters are produced in which Sandd would deliver them, minimizing the costs of posting.
PDF connector	A *StreamServe connector* written in Java and using the PDFBox library to fix 'faulty' PDF output that *StreamServe* generates.
PS connector	A *StreamServe connector* written in Java that parses *PostScript* output to fix ad-hoc problems in its fonts.
ASure	A notification connector in Java for error reporting to a MicroSoft SQL Server database using JDBC.
SocioPath	A Single Page Application written in *NodeJS* using the *MEAN* stack (*MongoDB, ExpressJS, Angular 1, Socket.io, etc*) to integrate multiple social network communication channels (Facebook messenger, WhatsApp, Telegram and more) for customer service. It also acts as a messenger bot. **Challenges**: Fist SPA, Angular, WebSockets...

Other interests and hobbies

- Linux, CLI. Vim/Neovim. Tmux
- Open Source
- Electronics
- Tiling Window Managers (qtile, dwm)
- Mechanical and Split Keyboards
- 3D printing

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