

Nacho Cordon

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EXPERIENCE

Neo4j | Senior Software Engineer September 2021 – Current | London, UK

Company owning the most known graph database in the market.

- Author and lead of the [language server](#) project (Typescript) to provide language smarts in text editors, and its integrations with VSCode and IntelliJ. I created the project in my personal time, got relevant stakeholders from the company behind it and I have been managing its development ever since.
- Delivered Single Sign-On authentication and authorisation for the database (Scala).
- Improved the algorithms standard library (Java) for the database and managed a team of contractors working on it.
- Reduced docs generation time by 90% (2 hours to 10 min), which had been hindering the docs team workflow for years.

Disney Streaming | Software Engineer January 2020 - September 2021 | London, UK

Company engineering Disney+, ESPN+ and Hulu streaming platforms.

- Designed and improved highly scalable and available microservices (functional Scala) in an event-driven and eventually consistent architecture (AWS), including a user accounts caching layer.
- Investigated and solved the cause of long-standing high latencies for Europe services.
- Implemented load-testing strategies that prevented an unreliable service making it into production and migration tools using Spark.

source{d} | Software Engineer July 2019 - December 2019 | Madrid, Spain

Company providing tools to measure software engineering delivery.

- Worked on a multilingual parsing server (Go) to extract Abstract Syntax Trees out of source code and perform some normalisations on them.
- Optimised client libraries (Scala and Python), using memoisation and fixing native layer memory leaks (C, JNI, CPython).
- Reduced level of privileges in the server by adding support for rootless Docker containers, which was a long-standing problem for customers at the time.

Era7 Bioinformatics | Software Engineer June 2018 - June 2019 | Granada, Spain

Company offering services for bacterial genomics analysis and DNA sequencing

- Produced composable low-level Scala libraries for DNA statistical analysis.
- Built the front-end (Elm) and back-end (Scala) systems for a web application to analyse bacteria DNA.

PROJECTS

scala-native | Scala [scala-native/scala-native](#)

- Solved a bug in the C concurrent garbage collector. Contributed fixes to improve POSIX portability.

markovchain | R and C [spedygiorgio/markovchain](#)

- Improved performance of native C methods from quadratic to linear efficiency.

imbalance | R and C [ncordon/imbalance](#)

- As part of my undergraduate thesis, I implemented this library of R and C math-based algorithms to address the imbalanced classification problem in machine learning.

SKILLS

Programming

Proficient:

Scala • Java • Typescript

Experienced:

R • C

Familiar:

Python • Go

Tools/Platforms

AWS (EC2, S3, DynamoDB, Kinesis, Lambda) • Docker • GitHub Actions • git

EDUCATION

Master's in Physics and Mathematics

University of Granada, Spain
2017-2019

Bachelor's in Computer Science

University of Granada, Spain
2012-2017

Bachelor's in Mathematics

University of Granada, Spain
2012-2017

COMPETITIVE CODING

Google Hash Code:

2016 • 2017 • 2018 • 2019

Google CodeJam:

2019 • 2020 • 2021