DIONISIO CORTÉS FERNÁNDEZ

· 🧑 https://github.com/dionisioC · ✉ cortesfernandezdionisio@gmail.com
· 🔗 https://www.linkedin.com/in/dionisio-cortes-fernandez/?locale=en_US

EDUCATION

Universidad Rey Juan Carlos Madrid, Spain
Master's Degree (M): Development and deployment of applications in the cloud   Grad: December 2021

Universidad Politécnica de Madrid (ETSISI) Madrid, Spain
Engineer's Degree - Engineer Diploma (DI) Software engineering   Grad: July 2014

Universidad Politécnica de Madrid (EUI) Madrid, Spain
Diploma of Higher Education (DipHE) Computer Science   Grad: July 2012

COURSES

Universidad Rey Juan Carlos Madrid, Spain
University course Computer Software Engineering (Web development)   Grad: July 2016

Universidad Rey Juan Carlos Madrid, Spain
University course Computer Science (Servers with free software)   Grad: July 2011

EXPERIENCE

Plexus Tech Madrid, Spain (Remote)
Software Engineer November 2023 — Present
Backend software developer. Diverse technologies:

- Kotlin for the backend with SpringBoot (3.X), openApi, maven, junit, mockito, wiremock, locust.

- Version control and devops: Using git and gitlab (with their ci pipelines) to do CI. Containerization with docker.

- DynamoDB and AWS SQS, localstack, localDynamoDB and ElasticMQ .

Project for a large banking entity.

ODILO Murcia, Spain (Remote)
Software Engineer Oct 2023 — Oct 2023
Backend software engineer with Java, trying to use and spread good development practices, but, unfortunately we didn't match.

Autentia Real Business Solutions Madrid, Spain
Technology Consultant July 2021 — August 2023
Backend software developer. Diverse technologies:

- Java for the backend, with some kotlin and a bit of python. Within the Java ecosystem: Spring boot / micronaut, maven, junit.

- Version control and devops: Using git and github actions to do CI. Experience with docker and linux systems.

Some projects I have participated:

- Development of an application for an electricity trading company: Change of tariff calculation due to new government requirements. Development of a store for customer fidelization.

- Multitenant SaaS able to assign tasks to workers and make schedules. Integration with existing systems to obtain the necessary information.

- Conversion of an application into a SaaS to make optimizations using artificial intelligence.

Current position: backend developer.
As I learn or try things I like to share them with the community, for example:

- Extreme mutation testing

- Mutation testing in kotlin

- Contract testing with spring

- Acceptance testing with Cucumber and Junit 5

- Coverage in a multimodule maven project with JaCoCo

- Accelerate your Spring Boot development with GitHub Copilot
- How to automatically generate tests with Diffblue
- Amazon CodeWhisperer Amazon's programming assistant
- Proxy to view requests from GitHub Copilot

Teva (Tecnologias Viales Aplicadas)
Software Engineer

Madrid, Spain
April 2021 — July 2021

- Backend developer using Springboot, mybatis, sqitch to develop microservices and trying to use and spread good development practices.

EpicLabs.io/Lightflow.media/Haivision
Software Engineer

Madrid, Spain
August 2018 — April 2021

- I worked in a wide range of projects: media, artificial intelligence and blockchain.
- Project based on nodeJS to configure multiple CDNs. Based on some parameters of the request, the request was redirected to a certain CDN.
- Proof of concept that involved image/pdf to text. To verify the POC, I made a small project called pythonOCR to convert into text the inputs.
- Continue the development of a legacy project that categorizes all services of a big company with all their options and different configurations. This project was in Angular JS, Java, Liquibase and Docker.
- Helped with transcoding verification classifier. I gathered sample assets to train the model, developed the needed scenarios to train it, containerize the solution and provided help to the machine learning team.
- I moved to the Lightflow team where I keep developing and evolving the product. In backend, we used Typescript and Python. Typescript for the API. With Python, I developed new features for processing assets. Also, I developed new services, using Go and Apache Flink. On the frontend side, I developed new features using Angular.

Devo (formerly kown as logtrust)
Profesional service engineering

Madrid, Spain
January 2017 — August 2018

- I was part of the professional services engineering team managing, gathering and analyzing requirements. Focused on telecommunication companies inserting data into the platform via steaming or with etls. We paid extra attention to performance.
- I prepared talks available here. Or repositories to try to improve the development experience when testing some ETL deployments found here.

Yapiko Software House
Software Developer

Madrid, Spain
November 2014 — January 2017

- I participated on the development of a betting sport application in an international environment in core java and oracle as database using liquibase to control the versions. To improve the development process I created a vagrant machine that with the database mantaining it up to date saving time to the team.

Welvi Experience
Research and Development Engineer

Madrid, Spain
March 2013 — September 2013

- I developed and improved the recommender system.

Reparalia (Homeserve Group)
Technical Support Engineer

Madrid, Spain
October 2012 — March 2013

- I developed new features, fixed bugs using Progress 4GL in the membership team.

Filmaffinity S.L
Research and Development Engineer

Madrid, Spain
January 2012 — October 2012

- I improved and optimized recommender systems, developing an item to item one.

RCMJIT
Software Developer

Madrid, Spain
September 2011 — January 2012

- I developed and maintained software in .net for microsoft environments.

UPM (Universidad Politécnica de Madrid)
Software Developer

Madrid, Spain
January 2010 — September 2011

- I researched metaverses, genetic algorithms, fuzzy controllers.

CERTIFICATIONS
Databases:	Mongo (Certified DBA and Developer, Associate Level (2.4))
Other:	ITIL V2 Foundation (2009)
English:	Toeic score 895 (Oct 2013)

AWARDS

Universidad Politécnica de Madrid (EUI) First class or Honours Madrid, Spain
Data Structures I. Open Systems. Reconfigurable Digital Design. Data Structures II. Fundamentals of Cryptology. Computer Microarchitectures Modelling Using Hardware Description Languages.
Real-Time Systems. Operating Systems Administration. Intelligent Agents. Advanced Architectures.
Virtual Environments. Management and governance of IT services. Thesis   2006 - 2012

Universidad Politécnica de Madrid (ETSISI) First class or Honours Madrid, Spain
Project and Risk Management. Software Quality. Thesis.   2013 - 2014