




# DIONISIO CORTÉS FERNÁNDEZ

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## EDUCATION

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<b>Universidad Rey Juan Carlos</b> Master's Degree (M): Development and deployment of applications in the cloud	Madrid, Spain Grad: -
<b>Universidad Politécnica de Madrid (ETSISI)</b> Engineer's Degree - Engineer Diploma (DI) Software engineering	Madrid, Spain Grad: July 2014
<b>Universidad Politécnica de Madrid (EUI)</b> Diploma of Higher Education (DipHE) Computer Science	Madrid, Spain Grad: July 2012

## COURSES

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<b>Universidad Rey Juan Carlos</b> University course Computer Software Engineering (Web development)	Madrid, Spain Grad: July 2016
<b>Universidad Rey Juan Carlos</b> University course Computer Science (Servers with free software)	Madrid, Spain Grad: July 2011

## EXPERIENCE

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<b>Teva (Tecnologías Viales Aplicadas)</b> <i>Software Engineer</i>	Madrid, Spain April 2021 — Present
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- Backend developer using Springboot, mybatis, sqitch to develop microservices.
- Trying to use and spread good development practices like testing for example.

<b>EpicLabs.io/Lightflow.media/Haivision</b> <i>Software Engineer</i>	Madrid, Spain August 2018 — April 2021
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- I have been involved in a wide range of projects, mostly of media, artificial intelligence and blockchain.
- I finished a project based on nodeJS to configure multiple CDNs and based on some parameters the request were transformed to go to a certain CDN to provide the content.
- We started a POC (Proof of concept) that involved image/pdf to text. To verify the POC, I made a small project to convert into text the inputs. [here](#).
- We provided help to continue the development of a legacy project we made in order to be able to categorize all services with all options and different configurations. This was done in Angular JS, Java, Liquibase and Docker.
- We helped livePeer with verificating transcodings [here](#). Verifications are mainly done in python. 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 was moved to the Lightflow team where I keep developing and evolving the product. At the backend side, we used Typescript on a Typescript application. With Python, I developed new features for processing assets. Also, I was involved in new services, using Go and Apache Flink. At the frontend side, I developed new features using Angular. I was never afraid of picking frontend tasks, and asking for help when needed. On that side, I was part of the new lightflow implementation in the new customers like this one [this one](#)

<b>Devo (formerly known as logtrust)</b> <i>Profesional service engineering</i>	Madrid, Spain January 2017 — August 2018
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- I was part of the professional services engineering team, working with telcos inserting data into the platform via streaming or with etls. After the data was ingested, we provided custom applications to make easier for them to analyze the data. This save them the need to perform Linq queries..
- As part of the team, I manage, gather and analyzed requirements, replacing the existing solution for a new and most efficient one. We paid extra attention to solution's performance to make sure we improved from the previous state. We did several tests with iperf, and we also explored alternative languages, such as Julia, to reach better performance than the existing Python applications.

- Along with other performance improvements, I prepared a talk about it, which can be here. Also, I tried to share the good practices I knew with the team, like code reviews, branching, etc.
- In order to increase the development experience when testing some ETL deployments, I created a vagrant machine to facilitate the task, and it can be found here.

### **Yapiko Software House**

*Software Developer*

Madrid, Spain

November 2014 — January 2017

- I was focused on a betting sport application in an international environment. The application was developed in core Java (not used java 8 version). We develop new features such as cash out. This development included the integration of the new feature and database patches using liquibase. We were using svn as CVS and we migrated to git in the end.
- I worked fixing bugs from easy ones to small memory leaks that were more complex. In order to improve the development process I created a vagrant machine that simulated the database environment. Testing patches locally was as easy as destroy the machine and spin it up again. Also, I saved time as I created new releases with the system patched up to the last release.
- I shared knowledge with the team on different technologies such as MongoDB. We made some brown bags sessions.
- As we were a small team, I helped organising the team and managing the tasks in coordination with the project managers to be more agile. As a result, the whole team was working on the same feature.

### **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 mainly 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.

## **SKILLS**

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Programming languages:	Java, Python, Javascript
Operating systems:	Linux, OSX
Version control:	Git
Databases:	oracle, mysql, Mongo (Certified DBA and Developer, Associate Level (2.4))
Other:	Vagrant, Jenkins, Maven, Jira, Confluence, Crucible, Bitbucket, GitLab
Other:	ITIL V2 Foundation, Docker, Kubernetes
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