

# Guillermo López

Big Data Engineer, OpenSource believer

Aranda de Duero, Burgos, Spain



## EXPERIENCE

### → Vonage-Ericsson, City: remote

Jan 2019 - PRESENT

Big Data engineer. Designed and optimized data pipelines for Vonage Video API. Proven experience in handling and processing billions of daily events, utilizing cutting-edge technologies to ensure efficient data transformation, loading, and analysis.

Deep understanding of Big Data ecosystems, leveraging expertise in Elasticsearch, Kafka, Amazon Web Services (AWS), log shipping, and diverse database technologies to deliver scalable and reliable data solutions. Passionate about uncovering actionable insights from large-scale datasets to drive informed decision-making and business growth.

### → Mozilla, City: remote

2006 - PRESENT

Volunteer. As an active member of Mozilla Hispano, I've made significant contributions to the Spanish-speaking Mozilla community. Led the Spanish (Spain) translation team for Firefox, ensuring high-quality localization of Mozilla products and documentation of Mozilla. Furthermore, I was a core member of the Spanish volunteer team, actively participating in community building, outreach, and volunteer coordination.

### Universidad Alfonso X el Sabio, City: remote

Sep 2015 - Sep 2022

Professor. Experienced professor in the online Computer Science degree program at MyUAX, specializing in hybrid application development using Cordova, PhoneGap, and Electron frameworks. Additionally, possess expertise in Big Data technologies, covering file systems (HDFS), databases (Cassandra, HBase), deployment strategies (in-house and cloud-based), massively parallel processing (MPP) with Storm and Hadoop, indexing with Elasticsearch, and adherence to best practices.

### Telefónica I+D - Tokbox, City: Madrid

Feb 2016 - Dec 2019

Technology Specialist. Selected for the *Skunkworks* research team and development project within Tokbox, contributing to innovative and experimental initiatives in real time video communications. Subsequently transitioned to the messaging team, gaining valuable experience in real-time communication systems. Later, played a key role

## SKILLS

Team-oriented

Collaborative

Innovative

Hard-working

Proactive

Problem-solver

Delegative

Decisive

## ACHIEVEMENTS

**Mozilla Firefox.** Led the Firefox translation for many years.

**Push Notifications.** Led the first implementation of notifications for the web, foundation of current usage in all browsers.

## LANGUAGES

Spanish - Native

English - Fluent (daily usage)

French - Basic

in the data pipeline team, leading the migration of existing infrastructure to new technologies.

### **Sentisis Analytics, City: *Madrid***

Oct 2014 - Feb 2016

Full-stack engineer. With a passion for building scalable and efficient backend systems. Experienced in crafting end-to-end solutions, leveraging expertise in Elasticsearch and Storm. Proven ability to integrate social media APIs to streamline data collection, processing, and storage within robust architectures.

Proficient in AWS, utilizing infrastructure-as-code and automation to optimize deployment and management. Experienced in designing and implementing reactive frontends powered by optimized backend data flows. Committed to delivering innovative solutions that enhance user experiences and drive business value.

### **Telefónica I+D, City: *Madrid***

Apr 2013 - Sep 2014

R&D Junior Member. Following the successful completion and presentation of my final project, a "Push Server for the web and mobile web," I joined Telefónica to contribute to the development of Firefox OS and participate in the standardization of the W3C Push API. This work involved collaborating with industry leaders to define and refine the protocols enabling real-time notifications and updates across the web and mobile platforms.

### **Telefónica I+D, City: *Madrid***

Feb 2012 - Feb 2013

Software Engineer intern. During my internship at Telefónica, I contributed to the development of Firefox OS. My primary focus was on building the Push Notification server, a critical component used in all Telefónica phones shipped with the OS, which ultimately became the foundation for my bachelor thesis.

Additionally, I played a key role in setting up the initial CI/CD integrations for Firefox OS builds at Telefónica, streamlining the development and deployment processes. I also initiated the development of several internal apps, notably the "Cost Control" app, which was included in the first release of Firefox OS and provided users with valuable insights into their data usage and call costs.

### **Vodafone, City: *Madrid***

Jun 2011 - Nov 2011

IT intern. As an Operations intern at Vodafone Spain, I gained valuable experience managing the SMS platform and key infrastructure components. I developed and implemented shell scripts to automate crucial processes like MySQL replication and backups, improving efficiency and reliability. Additionally, I built a Django-based internal website for the team's administrators, providing on-demand access to essential functions and enhancing overall operational control.

My contributions extended to mobile development, where I created an Android application for direct machine management. This app enabled the team to easily reboot machines, view and rotate logs, and deploy new machines, ultimately increasing the agility and responsiveness of our operations. This internship equipped me with a diverse skill set encompassing systems administration, automation, and mobile development within a large-scale telecommunications environment.

## Education

### **U-tad, City: Madrid**

2013 - 2014

Big Data and Business Intelligence Expert. Completed an expert program in Big Data, developing the skills to lead and manage projects and infrastructures that handle massive datasets. Prepared for the demands of today's most innovative, data-driven organizations.

### **Universidad Antonio de Nebrija, City: Madrid**

2007 - 2013

Bachelor in Computer Science, security specialist. Computer Engineer with a strong foundation in software development and a keen interest in mobile technologies. My academic focus culminated in a thesis exploring the implementation and optimization of push notifications within the Firefox OS ecosystem, providing valuable insights into real-time communication and user engagement.

## Talks

### **Mozilla, City: all over Spain and Latin America**

2006-2018

Active contributor to the Mozilla community, with a strong focus on Firefox OS. As a key member of the Spanish launch team, provided training and support, contributing to the successful introduction of Firefox OS in Spain. Delivered talks and presentations across Spain promoting Firefox OS and its features, including the notification API. Demonstrated a commitment to community building and open-source technologies.