



# Haroldo José López de los Ríos

## Site Reliability Engineering

Professional with 7+ years of experience in software develop in business applications. Oriented principally in the infrastructure, web applications' develop and mobile, applying the best practices in the software develop and industries standards.

## Professional Experience

### Site Reliability Engineering / Full Stack developer

Afinidata Company | March 2021 – March 2022

- Maintenance and development of application based in microservices which interacting with users through the use of chatbots in different channels like Facebook, Whatsapp and mobile app, managing the information of each its users. In this position was implemented a Kubernetes cluster in manual form using EC2 instances as nodes master and nodes workers. These were generated with Kops and Terraform to implement the "infrastructure as a code" paradigm to have the best infrastructure versioning of the application. Ensuring the software quality, the process was implemented with stress test using an application called Locust. The platform required to develop an automatization with Go language and AWS cli for starting or stopping instances and pods in the cluster. The technologies applied during my position are.

- Kubernetes and Docker
- Terraform
- AWS, EC2, VPC, Security Groups, IAM Roles, S3, etc.
- Automatizations applying Go language.
- Developing microservices with Django Rest Framework, JavaEE, NodeJS, FastAPI and RabbitMQ.

### Full Stack Developer / Sysadmin

O+M Plus S.A. Company | January 2015 – June 2020

- Developing different kind of internal platform to manage the processes in Tigo Guatemala Company. In my position, I managed all the application's life cycle as control of a Linux server, managing all the application processes and the network configurations to correctly deploy. The most applications were deployed on Amazon Web Services using infrastructure like EC2, S3, VPC, security groups, etc. Other project were deployed inside of Tigo Cloud infrastructure. Some projects developed during the position:

- The application was developed to approve contractors' technical report flows that working at Tigo Guatemala to make telecommunication installations. Using PHP with Laravel Framework and Angular at client side.
- The platform was developed to approve ATPs generating photographic reports through an Android mobile app. This platform was used to manage telecommunications devices as fiber optic muffs, radio frequency tower, routers, etc. The application has a visualizer of Google Maps to apply telecommunications calculates. Using Django Rest Framework at server side and ReactJS at client side. The mobile application was developed with native Java in Android.
- An application was developed to manage telecommunications sites with optical fiber network. The application manage the feasibility of the optical fiber nodes installation using data like location of the sites. Creation of a platform to manage MikroTik and Cisco through telecommunications protocols. Generating user interface to create reports and facility access and administration.
- A mobile application for managing the location of telecommunication devices through using of the geoposition tools and bar codes to identification them. Applying software technologies like Ionic Framework for mobiles. The application was used also managing an equipment state inside of Tigo Cloud through a NFC tags for verifying the internal devices' information.

## Contact

### Phone:

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### Email:

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## Technical skills

### Programming languages:

- C, C#, C++
- Typescript
- Java
- PHP7
- Go
- HTML5
- JavaScript
- CSS3
- Python

### Cloud technologies:

- Amazon Web Services
- Microsoft Azure
- Terraform
- Kubernetes

### DBMS:

- MySQL / MariaDB
- AWS Aurora
- PostgreSQL
- SQL Server
- MongoDB
- DynamoDB

### Software technologies:

- Jakarta EE
- NodeJS
- PHP Laravel
- ReactJS
- Django Python
- Angular
- FastAPI Python
- Docker
- VueJS

### Mobile technologies:

- Native Java Android
- Ionic Framework
- React Native

## Languages

- Spanish (native)
- English

## Personal skills

- Honest
- Responsable
- Proactive
- Creative
- Disciplined
- Teamwork
- Leader

### College Professor

Engineering Faculty, Universidad de San Carlos | 2014 - 2016

- Math Department professor and electronic laboratory. Imparting course about mathematical, digital electronic systems, microcontrollers, and microprocessors.

### Freelancer software developer

Health Unit of San Carlos University | Mar. 2013 - Nov. 2016

- Developing of application to manage the points of sells inside of the university. Using the software technologies JavaSE and JasperReports.

### Freelancer software developer

Construdiseño Company | Mar. 2014 - Jun. 2014

- The application was developed to manage the construction processes to administrate the activities and planning. The application was developed using PHP and JavaScript technology.

## Education

### Masters degree | 2020 - 2022

Universidad Internacional de La Rioja - USAC

### Degree in web applications with Java | 2020

Academik GT

### Degree in business applications with Angular | 2020

Academik GT

### College degree in electronic engineering | 2011 - 2020

Universidad de San Carlos de Guatemala

### Degree in finance | 2019

Intecap Guatemala

### Degree in Java OCA y OCP | 2018

Academik GT - Oracle

### Android developer | 2014

Universidad de San Carlos de Guatemala "SAE/SAP"

### Teaching induction program | 2014

Universidad de San Carlos de Guatemala

### Android developer | 2012

Universidad Galileo de Guatemala "Cultura Android Guatemala"

### High school degree in computer | 2008 - 2010

School "Salesiano Don Bosco"