



# JORGE HERRERA

GEOSPATIAL SOFTWARE ENGINEER

## GET TO KNOW ME

My experience has been focused on the generation of geoinformatics solutions from my positions as GIS Analyst and GIS Developer. During my career, curiosity and problem-solving skills have characterized my performance. This has led me to learn new technologies and methodologies. I am passionate about everything that has to do with computer science and geoinformation from computation and automation of algorithms, as well as architecture and software engineering.

## GET IN TOUCH WITH ME



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<https://github.com/joaherrerama>



<https://joaherrerama.github.io/website/>

## LANGUAGE SKILLS

	Reading	Speaking	Writing
SPANISH	Native	Native	Native
ENGLISH	Excellent	Excellent	Excellent
GERMAN	Intermediate	Intermediate	Basic

## FURTHER TRAINING

	Date	Topic of training
IBM	2020	Machine Learning with Python
UNIVERSITY OF FLORIDA	2019	Dialogues on governance and infrastructure in the Colombian Amazon
ARSET	2019	Remote Sensing for Conservation of Biodiversity
ARSET	2019	Accuracy Assessment of Land Cover Classification

## WORK EXPERIENCE

### Consultant Geoinformation System / GIS Developer

*FORLIANCE GMBH, 02/2021 TO PRESENT*

- Forest monitoring - analysis of drone data
- Develop interactive maps, mapping concepts and solutions for land use projects.
- Software development for Geospatial solution
- Development of Software product using Scalable products based on clients need.
- Propose and develop Software architecture for Remote sensing process automation.

### Project Manager/ Geoinformation System

*FORLIANCE GMBH, 02/2020 TO 01/2021*

- Forest monitoring - analysis of drone data
- Develop interactive maps, mapping concepts and solutions for land use projects.
- Baseline analysis for Carbon project
- Remote sensing analysis for land use mapping
- NDVI analysis - Independent organization of meetings, business travels and the conduction of team meetings and team information on project status and processes

### GIS developer

*GEOPROYECCIONES S.A, 08/2019 TO 12/2020*

- Android and Web mapping developer under languages such as JavaScript, HTML and Python.
- Management of Postgres databases in Postgis geographical data. And Server configuration and geographic servers (Geoserver).

### GIS Engineer

*FCDS NGO, 02/2019 TO 02/2020*

- Analysis of spatial variables to explain different socio-geographical phenomenon's
- Interpretation and development of methodologies for deforestation detection Using Python codes in order to automatize pre-processing and satellite image processing.
- Building and Evaluation of Spatial Data Base ensuring interoperability.

### Python developer

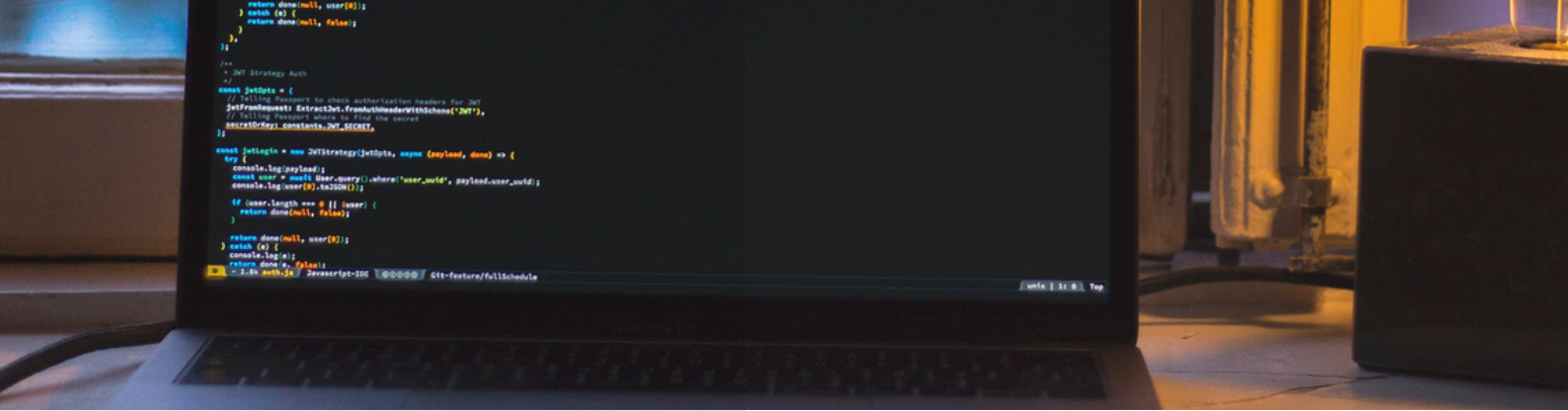
*SERVICIO GEOLÓGICO COLOMBIANO, 10/2018 TO 12/2028*

- Software requirements Develop testable software based on Python and Java language to manage geothermal data.

### Geomatic Engineer

*ARCO C & C, 06/2017 TO 10/2018*

- Coordination of flooding phenomenon studies.
- Management of geospatial databases
- Processing, detection and analysis of coverage from satellite images.
- Planning, generation and processing of drone images to obtain DEM and Ortho photo



## SOFTWARE DEV

### Cloud



### Backend



### Frontend



### Mobile



### DevOps



### Others



## DATA ANALYSIS TOOLS



## GIS APPLICATIONS



ArcGIS



PhotoScan

3D Modeling and Mapping



## PREVIOUS EDUCATION

### Westfälische Wilhelms-Universität Münster

MASTER OF SCIENCE GEOINFORMATICS &  
SPATIAL DATA SCIENCE

### National University of Colombia

BACHELOR IN GEOGRAPHY

### Universidad Distrital Francisco José de Caldas

BACHELOR IN GEODESY AND CADASTRAL  
ENGINEERING

## OTHER RELEVANT INFORMATION

### Publication

DETECTION OF POTHOLE IN URBAN ROADS FROM  
IMAGES OF HIGH SPATIAL RESOLUTION, USING  
GEOBIA TECHNIQUES

PUBLICATION DATE JUN/2019

REVISTA DE TOPOGRAFÍA AZIMUT

<https://revistas.udistrital.edu.co/index.php/azimut/article/view/14968>

### QGIS Plugin

TIME OF CONCENTRATION AND LAG TIME  
[https://plugins.qgis.org/plugins/tc\\_tlag/](https://plugins.qgis.org/plugins/tc_tlag/)