



# Raikel Bordón López

✉ raikelbl@gmail.com 📅 14/08/1988

## Personal Website

🌐 [raikel.github.io/portfolio](https://raikel.github.io/portfolio)

## Profile summary

Creative software developer dedicated to design and implement high quality, user-friendly and feature-rich software products. Passionate about building things by coding and acquire new skills every day. Strong attention to detail, excellent problem solving skills and ability to work in a fast-paced team environment.

## Work experience

📅 06/2019 - PRESENT 📍 ZACATECAS, MEXICO

### Software Developer

#### Altest

- Improved software development workflows by promoting development methodologies (scrum, kanban), tools (Git, GitHub, Ansible, web frameworks) and team collaboration.
- Reduced the overall software development cycle time to the half by introducing an **API** driven architecture, the use of modern **JavaScript** frameworks like **Vue** and automated deployment tools, like **Ansible**.
- Developed a **web scraper** to analyze vehicle market data from main online vendors using **Scrapy** (Python).
- Developed a **REST API** web platform for vehicle market analysis from scraped data, using **Django** and **Django REST framework** (Python).
- Designed and developed a single page web application to interface the vehicle market API, using **Vue** and **Quasar** (JavaScript, HTML, CSS).
- Developed a **REST API** web platform for **RFID** asset management, using **Django** and **Django REST framework** (Python).
- Designed and developed a single page web application to interface the RFID asset management API, using **Vue** and **Quasar** (JavaScript, HTML, CSS).
- Designed and developed a **mobile App** for the Zebra **RFID** readers, using **Flutter** (Dart).
- Developed a native **Flutter** plugin to interface the Zebra **RFID** SDK for **Android** (Java, Dart).
- Designed and implemented a **desktop application** to print RFID tags on Zebra printers

with and interface to the RFID asset management API (Java).

- Developed a desktop application for annotating anomaly video datasets, that was used later for the training of deep learning models, using **PyQt** (Python).
- Developed a Python package for face analysis (face detection, face recognition, age and gender estimation) based on **deep learning**, using **Pytorch** and **OpenCv** (Python).
- Developed an scalable **REST API** web platform for real-time face analysis on video cameras, using **Django** and **Django REST framework** (Python).
- Designed and developed a single page web application to interface the face analysis API, using **Vue** and **ElementUi** (JavaScript, HTML, CSS).
- Developed a Python application for license plate recognition based on **deep learning**, using **TensorFlow** and **OpenCv** (Python).
- Deployed multiple projects to **AWS EC2** instances, using **Ansible** as deployment automation tool.
- Configured and managed **Linux servers** (Ubuntu, CentOS), including **security**, **databases** and **web servers**.

📅 09/2017 - 02/2018 📍 ZACATECAS, MEXICO

### Software Engineer

#### CRD Ingeniería y Consultoría Zacatecas

- Designed and developed a native **Android app** for planning drone flight missions, using the **DJI Android SDK** (Java).
- Developed a Python package for the analysis of aerial images of crop fields using **OpenCv** (Python). This work was also part of my Master's thesis.
- Designed and developed a desktop application for the generation and analysis of crop fields orthomosaics, using **PyQt** and OpenDroneMap (Python).

📅 10/2013 - 07/2016 📍 SANTA CLARA, CUBA

### Adjunct Professor

#### Central University of Las Villas "Marta Abreu"

- Prepared the study materials and taught a Satellite Communications course (64 hours).
- Assisted the taught of a IP Telephony course (32 hours).

- Assisted the taught of a Physics course (64 hours).
- Advised two undergraduate thesis in the telecommunications field.

## Skills

### Programming languages



### Web and mobile development

Django Django Rest Framework Vue  
Quasar HTML CSS Flutter Android

### Machine learning

Pytorch OpenCv TensorFlow

### UI Design

Figma Inkscape AdobeXd

### Other Skills

Ansible AWS EC2 Git Linux Systems

## Research Work

- Bordon, Raikel, et al. "Energy efficient cooperation based on relay switching on-off probability for WSNs." *IEEE Systems Journal* 12.4 (2017).
- Bordón, Raikel, et al. "Energy efficient power allocation schemes for a two-user network-coded cooperative cognitive radio network." *IEEE Transactions on Signal Processing* 64.7 (2015).
- Bordón, Raikel, et al. "Energy-efficient outage-constrained power allocation based on statistical

channel knowledge for dual-hop cognitive relay networks." *International Journal of Communication Systems* 30.3 (2017).

- Bordón, Raikel, et al. "La radio cognitiva y su impacto en el uso eficiente del espectro de radio." *Ingeniería Electrónica, Automática y Comunicaciones* 36.1 (2015).
- Bordón, Raikel, et al. "Evaluación de modelos de propagación de canal inalámbrico." *Revista Cubana de Ingeniería* 3.1 (2012).
- Bordón, Raikel, et al. "Genetic algorithm aided transmit power control in cognitive radio networks." *2014 9th International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CROWNCOM)*. 2014.

## Education

08/2016 - 08/2018 ZACATECAS, MEXICO

### Master of Science in Engineering

Autonomous University of Zacatecas "Francisco García Salinas"

- General average of **9.80/10**.

09/2013 - 07/2015 SANTA CLARA, CUBA

### Master in Telematics

Central University of Las Villas "Marta Abreu"

- General average of **9.75/10**.

09/2007 - 07/2012 SANTA CLARA, CUBA

### Engineer in Telecommunications and Electronics

Central University of Las Villas "Marta Abreu"

- General average of **10/10**.

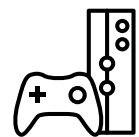
## Hobbies



Travel



Movies & TV



Video Games



Running



Reading