



Raikel Bordón López

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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 Development Team Lead

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

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