

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

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 severs (Ubuntu, CentOS), including security, databases and web servers.

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).

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).

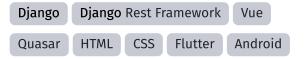
- Assisted the taught of a Physics course (64 hours).
- Advised two undergraduate thesis in the telecommunications field.

Skills

Programming languages



Web and mobile development



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

Master of Science in Engineering

Autonomous University of Zacatecas "Francisco García Salinas"

• General average of 9.80/10.

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







Movies & TV



Video Games



Running



Reading