

Alberto Quintero

<https://quintero.cc> | alberto@quintero.cc

- Cloud: AWS / GCP
- Design / Architecture
- Development: Python / C++
- CI/CD: Gitlab / Github / Ansible
- IaC: Terraform
- Monitoring: Prometheus / Grafana / Datadog

Certifications

- AWS Solutions Architect - Associate

Education

2014 - Master of Science from Université de Bourgogne

Specialization in Computer Vision and Robotics

2011 - Bachelor of Science from Universidad del Zulia

Specialization in Computer Science

Experience

Meero - Cloud Engineer

Real Estate | Fashion | Cars October 2022 - Now

- Architecture proposals and implementation for several systems in the company (client facing)
- Putting in place checks and documentation for **Security** best practices on different modules in the company
- Designed architecture for **Serving ML Models** with AWS. **Sagemaker** Hosted and Serverless
- Manage On premises Datacenter: **Ansible**

- Ops Support for R&D team and On premises Datacenter: containerization (**docker**)
- Designed and deployed solution for monitoring On premises Datacenter: **Prometheus, Grafana**
- Developed **Terraform** modules (**IaC**) for company's infrastructure
- Reviewed and proposed **MLOps best practices** in the company

Meero - R&D Team Leader

Real Estate | Fashion | Cars July 2020 - October 2022

- **Manage integration team** (~6 people): follow ups on projects, design of career path within the team, definition of short and mid term roadmaps.
- **Leading team members** in different technical subjects: dockerization, code robustness check, AWS services integration, systems architecture design, etc.
- Bridge between R&D and IT teams for communication, integration, etc.
- Leading projects for **computer vision and image processing**
- Responsible for designing and execution of workflow to **deploy in production** all the internal projects from R&D team

View Factor - Technical Founder

Traffic Control November 2018 - July 2020

- Designed the **system architecture** for insite vehicles and pedestrian detection and classification using deep learning models on embedded systems to control traffic lights on road intersections.
- Data preparation and fine tuning the detection model
- Designed and developed modules for production environment; Components for:
 1. Internal system communication.
 2. Vehicles detection and tracking: Using **C++** with **OpenCV**, **Tensorflow**, **TensorRT** for GPU optimization, etc.
 3. Traffic light orchestrator: Using **Python**
 4. Dashboard and Analytics: Using **Python (Flask)** and **JavaScript**
 5. Administration panel: Using **Python (Flask)** and **JavaScript**
- Designed and developed an Average Speed Control system on highways using automatic licence plate recognition:
 1. Automatic Licence Plate Recognition component
 2. System synchronisation among all remote nodes
 3. Dashboard and Analytics: Using **Python (Flask)** and **JavaScript**
- Designed and developed a High Human Body Temperature Detection combining **Thermal and RGB cameras** (standalone application):
 1. UI and UX using **C++** and **Qt**
 2. Face detection and recognition for temperature history for a person
 3. Thermal and RGB camera synchronisation and alignment

Title - Lead R&D Engineer

Fashion October 2014 - July 2018

- Led computer vision R&D, managing 1 engineer and 1 intern. Planning and coordinating roadmap for short/medium/long term R&D projects in the computer vision team.
- Integrated a Deep Learning method for segmentation using Caffe framework which improved segmentation accuracy up to 95+ %
- Designed and developed a tool for interactively deforming the pose of registered 3D bodies.
- Proposed and developed approaches combining Super-pixels Segmentation, background subtraction, pose estimation.
- Proposed and developed approaches for 3D reconstruction, internal tools and mobile applications with a user experience and optimisation focus.
- Integrated a Bundle Adjustment library for camera calibration and 3D reconstruction into initial prototype.