

me@carmilso.com
linkedin.com/in/carmilso
github.com/carmilso

46020 València - Spain

Short bio

I have a Master's degree in Computer Engineering. I have specialized in the design and implementation of microservices generally related to machine learning and NLP. I currently work at Sciling, a machine learning agency, where I have been working for more than five years. Learning enthusiast, I spend part of my free time developing personal interest projects, usually related to Open Source. I am a lover of clean code and simple solutions and I like to face new challenges. I am a sociable person who love meeting people from other cultures and travelling.

Professional experience

Senior backend developer, Sciling 2015 - present
Development and technical support, Diputació de València 2015

Involvement in projects

ML Models builder and deployment service: design and implementation of microservices that works together to achieve the deployment in production of ML models. This service builds a Docker image based on a given model and deploys it to production exposing an API that fits the platform requirements. Golang, Python and Docker have been the main technologies in this project. Role: designer and developer.

NLP platform: working as contractor for a large oil and gas company in an international team. The mission is to create an entire NLP system going through all the phases, from design to deployment. Role: developer.

Control system for a remote camera: design and implementation of a control system using Raspberry Pis to record musical and sporting events. This project was carried out remotely for a company in Canada. Role: developer and project responsible.

Bullet cam: design and implementation of a whole system for generating a video from photos obtained by several cameras connected to Raspberry Pis. It manages asynchronous video generation for different business leveraging NodeJS, Redis and ffmpeg. Ionic app is used to manage the admin and business UI. Role: developer and project responsible.

Virtual assistant: Android application that communicates with a NodeJS Restful API. It connects with external APIs such as Facebook, Twitter or Spotify. Information is stored in both non-relational and relational databases (MongoDB and PostgreSQL). All the microservices involved in the project have been virtualised with Docker containers. Role: developer.

Translation management system: NodeJS Restful API design and implementation leveraging technologies for storing and caching data (PostgreSQL and Redis). Role: developer.

Recommender system: backend application virtualised with Docker that generates a recipe based on the ingredients the customer has purchased. Machine learning model leveraging Gluon and MXNet. Restful API developed with Flask and Python. Role: developer.

Platform for pet management: frontend developed with Angular 2+ and backend developed with NodeJS. Server deployment with Kubernetes in Azure. Role: developer and project maintainer.

Part break prediction during a welding process: deep learning model in Python leveraging Keras and Tensor-Flow. Role: developer.

Stock market forecasting: generation of a deep learning model using Keras and Tensorflow from past values. Role: developer.

Education

Master's Degree in Computer Engineering, UPV 2016 - 2019
Degree in Computer Engineering, UPV 2012 - 2016

Computer skill highlights

Experience in agile environment working with international team members
High experience in Linux systems
Fluid handling with GIT version controller
Restful API design with OpenAPI, FastAPI
Restful API implementation with Golang, Python, NodeJS
Virtualisation of microservices leveraging Docker and Kubernetes
Communication protocols MQTT, HTTP, WebSocket
Knowledge of web technologies: JQuery, Vue.js, Angular
Experience in machine learning, deep learning models and NLP
Text: L^AT_EX

Languages

Spanish and Catalan as mother language
Intermediate English level in writing, reading and conversation

Publications

A Train-on-Target Strategy for Multilingual Spoken Language Understanding, IberSPEECH (2016)

Other merits and training

Scrum Master, Scrum Manager	License 29678
ITIL Foundation certificate, APMG International	License 04054335-01-KDBV
Nivell C1 de coneixements de valencià	License FCPV9VPOK9Q

Significant personal projects

Telegram bot with user customization and film data retrieval using web scrapping
Reverse engineering an API for automatically booking gym classes using an Alexa Skill
Automated blinds using a Raspberry and a hybrid mobile application
Script for checking ArchLinux system updates from given packages