



## David Lozano Jarque

Full stack software engineer: from scratch to production

Turning ideas into code is my passion: I've been developing software since I was in elementary school. First as a hobby, then as a freelance, and eventually in a company. Overall, my mission is to provide valuable contributions to great projects that can make a difference in their users' lives

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🌐 Spanish (Native)

🌐 Catalan (Native)

🌐 English (Advanced)

## Work

### BTC Assessors

Full stack software engineer & DLT consultant  
2018-06-01 - 2019-12-31

Lead software engineer for all company's projects. Blockchain / DLT consultant and researcher. Board member of the company's own cryptocurrency investment fund as technical advisor

### SEAT

Software Developer (freelance in internship)  
2017-03-13 - 2017-06-19

Integration and adaptation of the IBC Biomechanics software within SEAT IT Systems for its internal biomechanical laboratory in the CARS center in the Martorell headquarters

### Meditrauma

IT Manager (as outsourced freelance)  
2015-01-15 - 2018-06-01

Outsourced IT Systems and infrastructure accountable of the three company headquarters, performing typical systems administration tasks and IT consultancy

### IBC Biomechanics

Software Engineer & IT Manager (as freelance)  
2014-09-15 - 2018-06-01

Developed a biomechanics report generator app that takes user-designed templates and merges data from a collection of third-party applications to generate reports

## Education



UOC

Master's degree  
MISTIC (Cibersecurity)

📅 2017-09-20 - 2018-09-20

★ Avg: 8.14/10, (3.38/4 GPA)



UAB

University degree  
Computer Science Engineering

📅 2013-09-13 - 2017-06-20

★ Cum laude, Avg: 8.86/10 (3.85/4 GPA)

## Projects

### Cowstamp

CowStamp

For BTC Assessors

2019-07-29 - Present

👤 Lead software engineer

👤 Full stack developer

Web SaaS app to create, issue and receive verifiable credentials digitally signed using blockchain technologies with a user-centric design. Uses a custom ad hoc library to canonize JSON-LD graphs

Angular 8

Typescript

PWA

REST API

OpenAPI

Spring Boot

Kotlin

Apache JMeter

JUnit 4

Liquibase

MongoDB

PostgreSQL

Gradle

JHipster

Docker

Heroku

GitLab CI/CD

Linux

Blockchain

Blockcerts

JSON-LD

Agile methodologies

### Kowbucha

For BTC Assessors

2019-11-14 - 2019-12-17

👤 Lead software engineer

👤 Frontend developer

Web app to allow an independent verification of Blockcerts verifiable credentials based upon users' trust decisions. Uses a companion NodeJS & browser Javascript library created ad hoc to perform the verifications.

Material Design

Angular 8

Typescript

PWA

Redux

Karma

Jasmine

Jest

Node.js

Rollup.js

npm

GitLab CI/CD

Karma

Jasmine

GitLab Pages

Blockchain

Bitcoin

Ethereum

Blockcerts

JSON-LD

Agile methodologies



## NodeCenter

For BTC Assessors

2019-01-15 - 2019-09-10

- Software engineer
- Full stack developer

Application to manage blockchain / DLT nodes deployments in few clicks with an easy to use web interface, based on an Open API documented REST API exposed by a companion app daemon

Docker REST API OpenAPI  
Python 3.7 Flask Angular 8  
Typescript GitLab CI/CD



## Bitcoin Framework

For BTC Assessors & UAB

2017-07-04 - 2018-12-03

- Software engineer
- Library maintainer

Python Bitcoin framework to create transactions with smart contracts (scripts) based on puzzle-friendliness and OOP

Bitcoin Cryptography Python 3.6  
Unittest Sphinx ReadTheDocs  
TravisCI GitLab CI/CD PyPi

## IBC Report Generator

For IBC Biomechanics

2015-09-25 - 2018-02-17

- Lead software engineer
- Full stack developer

Desktop application to generate biomechanics reports out of data extracted from third party applications and devices using user-created report templates

Anaconda Python 2.7 Python 3.4  
PyQt 4 PyQt 5 SQL Alchemy  
Maria DB Docker



## Police Translator

For ISPC

2014-06-27 - 2015-11-18

- Software engineer
- Full stack developer

Hybrid mobile application with a collection of useful phrases for police officers translated from/to English to/from Catalan, with audio pronunciations and that fully works offline. Web application to manage all content and their translations

Linux PHP 5 MySQL jQuery  
Apache Cordova HTML4 CSS2  
JavaScript

# Skills

## Frontend: web

★★★★★

Responsive design

Material design

Redux (flux architecture)

Angular 7 & 8

Bootstrap

Jekyll

Typescript

Javascript

HTML5

CSS3

## Backend

★★★★★

Spring Framework (Boot)

Kotlin

Java

Python

PHP

Node.js

J2EE

Gradle

Maven

Liquibase

PostgreSQL

MongoDB

OpenAPI

## DevOps

★★★★☆

Docker

Apache JMeter

Gitlab CI/CD

Travis CI

Heroku

## Software architecture

★★★★☆

Clean Code

Clean Architecture

DDD

TDD

Design patterns

## Systems administration

★★★★☆

Linux

Arch Linux

Debian/Ubuntu

Bash

Zsh

iptables

OpenVPN

Wireguard

Windows XP+

## Project management

★★★★☆

4+1 Architecture

Agile methodologies

Requirements specification

Use cases diagrams

Full version available online at <https://resume.davidlj95.com>