



David Lozano Jarque

Computer Science Engineer. Passionate Systems Administrator, Full-stack software developer and Cryptography and secure systems fan



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Spanish, Catalan, English



BACKGROUND

ABOUT

Technology and specially computer science has always been a diversion since a was a teenager at highschool. Since I discovered computer science, I wanted to turn my hobby into my profession, and started learning computer science on my own. After that, I decided to study a computer science engineering degree at UAB.cat and have been launching several projects as a freelance since then. Not just to provide IT services to businesses but also developing innovative projects on my own with some colleagues to try to help evolve our world into the future. Currently, I offer those services as a freelance and spend my free time researching Bitcoin and blockchain related technologies. Moreover, I'm also studying a cibersecurity master's degree at UOC.edu to enhance my knowledge in IT security.

Software Developer (as freelance in an internship), SEAT S.A.

Mar, 2017 - Jun, 2017 ⌚ 3 months

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

- Python 3.6 (using Anaconda)
- GUI(s) using PyQt4/5
- Database management using ORM frameworks
- MariaDB RDBMS management
- SAP integration using APIs

● **Systems Administrator and IT consultant (as outsourced freelance) Meditrauma S.L.**

Jan, 2015 - Present

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

- LAN and WLAN TCP/IP networks installation and management (including cybersecurity tasks such as traffic filtering)
- Servers installation and maintenance using Ubuntu and Microsoft Windows Server 2003/2012
- Database setup and maintenance using Borland BDE, Microsoft Access and Microsoft SQL Server 7/2008
- Network file sharing installation and maintenance (with permission management) using Samba protocol
- Network printer spool services installation and maintenance using Canon, HP, Epson printers
- Workstation installation and maintenance using Microsoft Windows 7/8/10 (also migrated old ones from XP) and setting up enterprise software including ofimatics and internal ERP customized software(s)
- Installation and maintenance of DICOM networks and services
- Installation and maintenance of point-of-sale devices
- Installation and maintenance of medical equipment hardware and services such as X-Ray machines and ECGs
- Installation and maintenance of laboral risk prevention devices like audiometers

● **Software Developer and IT consultant (as freelance) IBC Biomechanics**

Sep, 2014 - Present

Design and development of a customized clinical reports generator software application based on Microsoft Word user-designed templates and using data exported from a collection of third-party applications that capture and analyze data from a patient using optical-tracking camera devices, EMG devices, foot insoles, dynamometers and inertial sensors

- Python 2.7 / 3.6 (using Anaconda framework)
- JavaSE 8 (using PyBluez to handle Bluetooth connections)
- GUI(s) using PyQt4/5
- Database applications using SQLAlchemy

Cybersecurity and cryptography

Symmetric cryptography (AES, DSA) Public-key cryptography (RSA, ECDSA, ElGamal)

Shared-secret-schemes Public Key Infrastructure (PKI) Blockchain technology

Bitcoin cryptocurrency (technical level)

Networks and System Administration

TCP/IP protocols family IEEE 802.3/11/15 (WiFi, Ethernet, Bluetooth) STP Static and dynamic routing

DTNs Autonomous Systems Domain Name System Tunneling & VPNs & OpenVPN IPsec

Traffic filtering with iptables-like tools

Web Development

HTML5 CSS3 Javascript AJAX PHP Responsive design Bootstrap Jekyll

Programming (and markup) languages and frameworks

Android Assembly (Intel x86_64) Bash / Shell Batch/DOS C C++ CSS3 HTML5

JavaEE (J2EE) JavaSE JavaScript JSON LaTeX Markdown NodeJS PHP Python Qt SQL

XML

Database management

Borland BDE MariaDB Microsoft Access MySQL Oracle Database 11g SQLite SQLAlchemy

Operating Systems

Debian Java Linux-based Microsoft Windows XP/Vista/7/8/10

Microsoft Windows Server 2003/2008/2012 Ubuntu

Software Development

CVS: Git, Git-flow (+GitHub and Bitbucket) Agile methodologies SPMP Software Analyst

Software design Use cases diagrams Class diagrams Requirements specification Unit testing

EDUCATION

- **Computer Science Engineering: IT Security, Master's degree, Open University of Barcelona (UOC.edu)**

Sep, 2017 - Present

Global average GPA: 3.38 (8.14/10 in Europe)

Digital Identity

Legislation and Regulation

Security vulnerabilities

Networks' security

Databases' security

Computer Science Engineering, University degree, Autonomous University of Barcelona (UAB.cat)

Sep, 2013 - Jun, 2017

Cum laude, Global average GPA: 3.85 (8.86/10 in Europe)

Algebra and Calculus

Electricity and Electronics

Computer Architecture

Operating Systems

Software Development

Database Management (RDBMS and NoSQL)

Agile Methodologies

Computer Networks (Advanced)

Distributed Systems

Systems Administration

Information and Security (Advanced)

PKI

Big Data

Web Services

DevOps

Blockchain technology (Advanced)

Bitcoin development (Advanced)

Science and Technology, High school, Institut de Mollet del Vallès (iesmollet.net)

Sep, 2011 - Jun, 2013

Cum laude, Global average GPA: 3.96 (9.76/10 in Europe)

Catalan

Spanish

English

Industrial technology

Maths

Physics

Technical Design (and CAID)

Entrepreneurship

Internship (as computer technician)

AWARDS

2nd place at University degree's gamification program dEIC.UAB.cat

Awarded on: Jun 25, 2016

TOP Enginyeria is an engineering gamification program implemented in several engineering degrees that aims students to go further than classes with extra projects, competitions, challenges and games apart from traditional classes, awarding the best students with symbolic rewards and extra activities to motivate them in their studies and improve their rivalry to get the best performance possible

<https://bit.ly/deic-gf-davidlj95>