



## 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 (fluid)



## 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 decided 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 and with some colleagues to try to help evolve our world into the future



## WORK EXPERIENCE

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

Mar, 2017 - Present

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
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- **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 cibersecurity 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
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- **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 and python-docx library)
- JavaSE 8 (using PyBluez to handle Bluetooth connections)
- GUI(s) using PyQt4/5



## SKILLS

### Web Development

[HTML5](#)[CSS3](#)[Javascript](#)[AJAX](#)[PHP](#)[Responsive design](#)[Bootstrap](#)[Jekyll](#)

### 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](#)

### Cybersecurity and cryptography

[Symmetric cryptography \(AES, DSA\)](#)[Public-key cryptography \(RSA, ECDSA, ElGamal\)](#)[Shared-secret-schemes](#)[Public Key Infrastructure \(PKI\)](#)[Blockchain technology](#)[Bitcoin cryptocurrency](#)

### 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](#)[NodeJS](#)[PHP](#)[Python](#)[Qt](#)[SQL](#)[XML](#)

### Database management

[Borland BDE](#)[MariaDB](#)[Microsoft Access](#)[MySQL](#)[Oracle Database 11g](#)[SQLite](#)

### Operating Systems

[Debian](#)[Java](#)[Linux-based](#)[Microsoft Windows XP /Vista/7/8/10](#)[Microsoft Windows Server 2003/2008/2012](#)[Ubuntu](#)

### Software Development

[CVS: Git \(GitHub and Bitbucket\)](#)[Agile methodologies](#)[SPMP](#)[Software Analyst](#)[Software design](#)[Use cases diagrams](#)[Class diagrams](#)[Requirements specification](#)[Unit testing](#)



## EDUCATION

- **Computer Science Engineering, University Degree**, Autonomous University of Barcelona (UAB.cat)

Sep, 2013 - Present

*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 and Bitcoin technology (Advanced)	Bitcoin Payment Channels		

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

Sep, 2011 - Jun, 2013

*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>