



## 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 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 - 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
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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

### Cybersecurity and cryptography

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

### 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

### 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, University Degree**, Autonomous University of Barcelona (UAB.cat)

Sep, 2013 - Jun, 2017

*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

*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>