PERSONAL INFORMATIONS   Vignali Luca

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Male | Date of birth 12/08/1980 | Italian nationality

JOB APPLIED FOR   **Corporate Manager, Chief Technical Officer**

WORK EXPERIENCE

Designer, computer systems analyst, project manager, Blockchain Architect, Cloud Architect, Data Scientist

- Expert in relational databases and data methods
- Expert in mathematics and analysis
- Expert in cryptography and IT security
- Expert in the creation and management of large-scale IT projects
- Expert in the development of augmented reality applications and immersive environments
- Expert in the creation and reengineering of products or software for distribution in ASP mode
- Expert in the development of social networks, e-commerce and cloud applications
- Project Manager
- Big Data Architect
- Linux, Windows and MacOS systems engineer
- Competence in Machine Learning and artificial intelligence
- Skills Blockchain, Crypto currency, SmartDesigner, IT systems analyst, Smart Contract

01/09/2020–now   Corporate Manager - IT Company
Affidaty s.p.a., Grosseto (Italia)
Chief Tecnical Officer

06/03/2019–01/09/2020   Corporate Manager - IT Company
Affidaty s.p.a., Firenze (Italia)
Chief Scientific Officer

Curriculum Vitae

01/06/2017–15/11/2018	**Corporate Manager - IT Company** Adamantic s.r.l., Roma (Italia) Chief Scientific Officer and Blockchain Architect , co-founder
08/06/2010–now	**Corporate Manager - IT Company** LHS Group s.r.l., Arezzo (Italia) CEO - Owner
28/12/2015–30/11/2016	**Corporate Manager - System Integrator Company** Green Vulcano s.r.l., Roma Cloud Architect - technical advisor regarding the selection of startups to be financed in the ICT sector
08/06/2010–now	**Corporate Manager, Tour Operator Company** Teseo s.n.c., Orvieto (Italia) Cofounder and CTO
01/02/2004–06/06/2011	**Owner** Luca Vignali Outsourcing, Manciano (Italia)

EDUCATION AND TRAINING

01/07/1999–07/2006	Masters in : Ethereum, Hadoop, Solidity, PHP7, Data scientist Degree in chemical engineering Department of Chemical Engineering of Pisa, Pisa (Italy) Computer applications related to the chemical industry's world Acquisition of specific engineering skills on construction and project management Founder and Owner of LHS Group LTD, Information Technology Outsourcing companies and R & D
01/2004 -now	

PERSONAL SKILLS

Mother tongue   italian

Other language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

(English)

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user Common European Framework of Reference for Languages

COMPUTER SKILLS   **skills**: Cloud Architect, Project Manager, Big Data Architect,Data scientist, Full stack developer, Full stack blockchain developer and architect

Curriculum Vitae

programming languages : PHP, JavaScript , ActionScript, Python, R , Java,Perl, C, C++, solidity, TypeScript, CoffeeScript

framework front-end :   Angular JS, Bootstrap, React, Redux,StencilJS

framework server side : PHP : Simphony, Laravel, CakePHP

NodeJS : SailsJS,StrongLoop , NodeRed

JAVA : Drools , Spring

Python : Django

framework mobile app : Ionic Framework, React Native

databases : Oracle, MySQL, Postgresql, MongoDB, Cassandra, Hive,Parstream, other minors…

competence domains : Machine Learning, BlockChain , Big Data , Cloud, Mobile App, Scrum master, Agile Development, Software Architecture,Project Management, Cryptography,Cryptocurrencies,Data transport & Storage Security, Deterministic Computer Systems, CRM, Software Development, IOT

Training courses and certificates

Ethereum : Decentralized Application Design & Development

Ethereum Developer: Build A Decentralised Blockchain App

Master in Solidity: Programming Language for Smart Contracts

Data Science and Machine Learning with Python

Big Data and Hadoop

Architecting Big Data Solutions

AWS Certified Solution Architect - Associate 2017

Project Management: Deliver on Time + Scrum Project Delivery
UX & Web Design Master Course: Strategy, Design, Development
Mongo University (percorso in fase di completamento)

ADDITIONAL INFORMATIONS

Projects

Affidaty s.p.a.

IT security manager on all Affidaty products, AI research and development and development manager in the AISilomar project

Hypechallenge s.r.l.
Cloud architect and software engineer of the whole hypechallenge.com platform

Adamantic s.r.l. : Aprile 2017 - November 2018
Design of Distributed Architecture

Omoove shared mobility (Octo Telematics) : June 2016 - March 2017

Mobility Shared Platform can offer all the services that operators and users expect from car sharing and sharing companies.
What I was doing:
Designing the software architecture and database, in addition to coordinating and steering the work of the development team.

Vulcon : December 2015 - November 2016

Platform for easy integration between systems and modeling service flows without the need to write and test the new Java code to create and deploy new services.

The Vulcon project is in effect a distributed system on multiple levels:

Vulcon Cloud - project area for project management, with the ability to create new ones, modify them or delete them.

Vulcon IDE - the core of the project, is the interface where you can create streams from the selected project.

Vulcon API - a business logic layer, middleware where business logic across the architecture is centralized.

Website - project submission site.

Easy-fork of the initial project, where you can create automated workflows between pre-defined apps and services.

What I was doing:

Designing the entire architecture, coordination and direction of the various working groups

Octo Fleet January 2016 - April 2016

Web application to analyze in real time the data collected from the Octo boxes installed on automotive fleets from the BIG Data Octo Fleet North American architecture

What I was doing:

Backend Infrastructure Design and Frontend Design Coordination;

architecture design for data flow management on Oracle and Parstream, work coordination for creating distributed nodes for data usage on web and mobile platforms (high availability)

Apa Cloud - Telecom Italia : April 2015 - March 2016

Multi-tenant web platform for managing IoT cards, collecting, aggregating and sending data in the Big Data of Telecom Italia.

System distributed over multiple levels:

Web Application - Allows you to manage tabs as a whole or to create tab templates, create template instances, create sensors / actuators, and associate them with templates / instances, manage clusters of cards, manage cluster multi-tenants, users and test the cards in the sandbox environment.

Web Application - allows you to analyze data received from tabs, divided by clusters / users, send commands to tabs, configure tabs.

Broker MQTT - middleware for communication between boards and web platform

What I was doing:

Designing the entire architecture, from the cluster management software modules to the development of the sandbox environment; reengineering the business logic of the MQTT broker, sending and synchronizing the data in the Big Data of Telecom Italia, general coordination of the project between the development team and the team of Telecom Italia

Try And Drive - OCTO North America - June 2015 September 2015

Mobile application to analyze real-time data collected from Octo boxes installed on cars from the Octo North America Big Date

What I was doing:

Development of existing application development work with Sencha Ext js framework; compilation cross platform (iOS, Android), collection and bi-directional communication with Big Data.

EpicApp - Ikepono - March 2015 - July 2015

EpicApp is a mobile application that allows you to follow a series of Youtubers and lets you

stay up-to-date with regard to the latest videos, live series and live streams.

System distributed over three levels:

Mobile Application - iOS and Android mobile application

CMS - Mobile Content Manager

API - exposes the APIs consumed by the mobile application

What I was doing:

App design and workgroup coordination

Algida Bar : Algida & Unilever - February 2016 - March 2016

Web platform to offer a service to the owners of Algida brand distributing companies.

System distributed on two levels:

Mobile Application - iOS and Android

CMS - Mobile Content Manager

API - exposes the APIs consumed by the mobile application

What I was doing:

CMS design; designing and publishing on the cross platform mobile application stores; design and development of the API module.

Augmenta - Creating Engine Enemies - June 2015 December 2015

Project manager in the development of the immersive environments management platform for virtual museum management

Mr. Guide - Mr Guide s.r.l. - June 2015 - November 2015

Mr. Guide is a platform that provides brokerage services between tourists and tour guides authorized through the website and mobile application. The platform allows tourists to book a private tour by choosing from several guides, each with its own profile.

System distributed over three levels:

Web application - ecommerce

Mobile Application - iOS and Android

CMS - content manager for the web application and mobile application

API - exposes the APIs consumed by the mobile application

What I was doing:

Design of architecture, business model and web application; design and development of the CMS; publication on the cross platform mobile store

Football League B - December 2014 - now

Official website of the National League Professional Series B and the Serie B Serie B. All matches results and calendars.

Macro areas:

Website

CRM - behavioral analysis of users who access the League B Series applications

API - exposes the APIs consumed by the B-Series applications

What I was doing:

Designing the entire Big Data Building of the Serie B League

Designing CRM in all its aspects, direction of website creation work, and co-ordination of developments between companies operating around the Lega site.

Developing a customized architecture to make the site available in real-time, data from various

providers around the league, such as Direct Match, Ranking, League Data, etc.

Smart SST - Regione Toscana & Engineering S.p.a.- September 2014 - December 2014

Mobile Application of the Sanitary Service of Tuscany offering access to the on-line services of tuscan healthcare through mobile devices.

What I was doing:

Development of new software modules on the existing application using the Backbone Js framework, workgroup coordination.

Negozy : November 2014 - now

Negozy.com is the digital platform that allows you to create on-demand e-commerce websites. Users who want to sell products and services across the web find the tools to sign up and within minutes they are able to have their own dedicated domain and their own website. To achieve this, the user is steered step by step in the ecommerce configuration, with simple automation tools that lead him to the organization of showcase pages to promote his products, in the setting of sales conditions closer to your needs and a few other, necessary activities.The Negozy project is divided into four major macro areas:

Website - Project reference site with information, shop window and area where you can sign up to open a new virtual store or sign in for registered users

Web application - web application for managing your store (product insertion, creation of institutional pages)

Big Data centralized with various automation processes for Machine Learning and Marketing Automation

What I was doing:

Designing all of the software, the whole development of the Big Data architecture, from architecture to individual components, coordination of the whole team, real time notification system development, system audits and alerts, messaging application

Cloud4wi SDK August 2013 - July 2014

Design and development platform for the management and control of third-party apps. Management and load balancing and optimization of the algorithms on production servers Development of many internal apps like Weather, News, surveys, advertising and many more.

Today, the platform offers an online application development environment with innovative API solutions that reduce over 40% of Server2Server traffic for data communication between single applications and the cloud4wi server.

I have personally taken care of the design of architecture in every single detail, including structural load balancing and data security.

I have directed the development work and coordinated the development team at all stages, from prototype to production.

Witech Developers July 2013 – July 2014

Implementation of an innovative system for creating applications in HTML and JavaScript. The platform hosts an IDE and an online editor, and allows the developer to create and test apps in an architecture emulator of Witech Cloud 4wi

I took care of the design and development of this tool, and coordinated the development team that brought this tool into production.

ART - Business Intelligence Application May 2012 – Present

ART is a business intelligence software that allows to monitor the change of business data within the company database offering the ability to create custom monitoring dashboards, export specific subsets of data and create pivot tables linking any related data. This software has been built for Telecom Italia which still currently uses in their production systems. I oversaw the design of the whole software coordinating the development team that produced and tested the application in the Telecom infrastructure.

I have been involved in the design and development of basic software both at the architectural

level and at the system level, and I have also implemented 12 verticalization projects to tailor the specific requirements of Telecom Italia departments to channel and manage data flows into the Big Data solution Telecom Italia.

Witech App v.1 October 2012 – July 2013

Implementation of an architecture able to host and manage several installations of apps in wireless networks.

Witech is a company that delivers cloud management solutions for hotspot wifi management.

I have proposed and built an architecture prototype that can support internal apps that share data with basic cloud architecture, these apps manipulate and manage them safely.

Through API, apps enjoy cloud-related user information and sophisticated permissions pyramid, they can swap high-speed data without affecting the execution time of the platform itself.

This architecture has made it possible to evolve the platform towards the new and sophisticated SDK of apps.cloud4wi.com previously described.

IOT Platform LAB April 2014 June 2014

Reengineering of Fluctus Cloud and CasaLife, a platform that delivers in SAS mode analysis systems and electronic board controls, used for detecting environmental parameters such as temperature, humidity, different gas levels, and ambient quality.

I have designed a platform that can synchronize and display real-time data from individual electronic cards by reigning the web interface to create an application experience similar to that of software installed on a computer, paying particular attention to data security and the load that the same data had on the platform servers.

mSite January 2014

Development of a cloud platform for the creation of websites for selling digital products payable by credit phone cards for mobile phones.
The architecture provides for the creation of websites with any graphical model, but with the possibility of adding many plug-ins integrated with the base system, such as CRM, Billing system.
The software has a sophisticated governance structure that enables the creation and upload of digital content (music, video, cooking recipe, etc. ..) and catalog it according to the author, categories, price and other information.
Each platform administrator can independently create websites dedicated to one or more digital products in its portfolio, combining tracings in marketing campaigns and promotions.

I have personally taken care of all the prototype analysis and development phase and directed the development team that has built the architecture and all the visual parts of backoffice and front end.

xDNA e-commerce June 2011

Development of a cloud platform for the creation of e-commerce on demand.
The architecture provides for the creation of websites with any graphical model, but with the possibility of adding many plug-ins integrated with the base system, such as CRM, billing system, integration with shipping carriers.
The system is controlled through the control panels of vertical depending on the level of access, and the platform itself handles various aspects such as the licensing system of commerce, the ticket system, billing, renewals and many other services.

I have designed, designed, and implemented this product by coordinating an in-house developer team that has provided the LHS Group company with a powerful scalable tool that can generate ecommerce sites based on a wizard and visual pathway that, once collected necessary, it is able to generate structured ecommerce, warehouse management, active and passive billing in addition to all the classic features of an ecommerce.

Split Payment

Cloud application. Integrated with PayPal to manage and share in real-time a sigle payment to many sub-payments governed by custom business rules.

Curriculum Vitae

I have designed this product and have directed both the realization and the evolving phases of the product itself.

xDNA January 2010 – Present

It is a revolutionary framework that greatly simplifies the development of complex web applications.

Drawing inspiration from how data is nested and structured in biological DNA, xDNA proposes a very particular data structure within classical relational databases (Oracle, MySql, etc.), this structure is very efficient but complex, but the use of data is regulated and automated by a software layer that abandons the use of tables and columns, providing the developer with a practical persistence tool that autonomously optimizes and reorganizes data according to the use made of it, it also adds important features to the columns of a classic table, transforming them into "multidimensional digital locations", ie elements that can simultaneously display one or more faces (or dimensions) of a column that, unlike classical relational tables, multidimensional, with enormous application benefits.

Architecture is structured as a Big Data, as micro services are replicated, all data collection, transport, DB load, processing and Post Processing, Map Reducing, Data Optimization.

This project represents the most important work I have done, this framework has enabled LHS Group to significantly increase the quality and number of projects realized over time, and today it represents the standard for development of LHS group, the basis from which the team development part for the development of most projects.

The framework is highly tested and used in important projects such as ART-BI used by Telecom Italia and LWin used by many Unilever.

LWin February 2011 – Present

Platform for managing prize competitions.

The software is used in SAS mode and via API and is integrated with many national and international VOIP VOIP numbers, SMS gateways, physical or virtual telephone switchboards, and many other tools.

This platform is owned by LHS Group s.r.l. and is used by many customers for the autonomous management of prize competitions, a client amongst all is UNILEVER that, after a satisfactory test on a pilot contest, over time, on this platform, many of the prize competitions first managed with methods traditional.

The platform is based on a very sophisticated deterministic algorithm that can guarantee a fair and predictable winning odds of winning prizes without first knowing the number of participants.I have been both designing and developing the platform, writing and testing the deterministic algorithm, I have directed the development team.

Maremmaonline xDNA January 2011 – Present

Complete rebuilding of the Maremmaonline project with xDNA framework. We added many more features.

I took care of the design analysis and directed the development team.

SagraSoft June 2007 – Present

A very powerful application for restaurants and food suppliers.

Lighthouse Enterprise October 2007 – January 2010

Enterprise application for marina management, control for barriers and tracking for boats in and out of the marina with RFID. This software has been installed in over 100 marinas and harbors in the world.

Thanks to a partnership with Skipper, a French-Slovenian company, the product was distributed in a pre-existing port automation software managed by Skipper, which already offered a booking solution for boat berths within ports and following the integration with Lighthouse Enterprise, has strengthened its offer by providing naval access control and control and management of water and energy consumption of refueling stations located on the dock.

I personally developed the solution apart from the coordination of the Romanian integration

team, with constant presence at Jasi in Romania, throughout the integration phase.

Confestetica October 2010 – July 2011

Social network on beauty and wellness

Reengineering the portal both from aesthetic and functional point of view.

I took care of designing the new solution, sizing the new cloud architecture, and designing a proprietary advertising software.

Maremmaonline January 2008 – January 2011

A very wide project, MOL is a social network related to tourism. Several property can add their own profile, features, facilities and can build a personal website on demand.

I have designed and directed both the development phase and the evolutionary phase that over the years have turned the portal into a national reality.

Teseotur.com March 2008 – Present

Tour operator website, with integrated booking engine system. The projects offers several technologies to connect customers and vacation rental owners with Pdf documentations on demand, cancellation policy, live chat and many more features.

I have designed and realized all the architecture both graphic and technical.

SAI January 2010 – September 2010

This application can acquire images for enterprise webcam 16Mpixel with a double GigaEthernet, the customer use this application over the helycopter to acquire information about high-voltage lines and detect breakdowns or malfunctions

I implemented this application for Birdview, a helicopter company that inspects the lines of high and medium voltage lines of national (Enel) or international operators.

NEDO May 2008 – December 2008

My personal browser, NEDO is THE beautiful hand-painted browser. This is a project that started in 2008 and over 1000 users have downloaded it so far.

Luna JS April 2007 – June 2008

A truly innovative system for asynchronous communication, Luna JS is an open source framework that even today, despite the advent of JQuery and other tools for asynchronous calls, it is used in some projects because of its versatility, which has not been added to the common framework, yet.

I built this tool for internal use, and given its ease of use, I decided to share the project with the community by distributing the source codes.

EasyAdmin 4 January 2008 – December 2010

The most powerful version of the CMS ever made, virtualization technology of URLs, native API, compatible with all major browsers and Ajax technology for editing content. This version has been introduced to the live mode, where the client can modify the website content directly from the website pages.

EasyAdmin 3 January 2004 – December 2006

Release of a powered and updated version of EasyAdmin. The CMS now has a higher security system, a technology licensing and more than 100 customers that have been using it. In these years I founded EasyAdmin Web Technologies, the company that sold my first regular CMS in ASP mode.

EasyAdmin 2 January 2001 – December 2003

Improvement of EasyAdmin 1, improved version in the GUI and usability. Extra features added: newsletters, management tools and more.

EasyAdmin 1 January 2000 – January 2001

Construction of one of the first Italian CMS

I realized this product in the year 2000, when the internet was still virgin in terms of web automation solutions, the sudden success of this tool and the positive feedback received were the reason why I decided to devote myself to this world with consistency and dedication, given that I had a fertile and rich opportunity and opportunities to realize my ideas and to contribute, in my small, to the digital revolution.