



JOSE ALIRIO PACHECO SOLANO

SYSTEM ENGINEER

National University of Colombia

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PERSONAL INFORMATION

Marital Status: Single
Nationality: Colombian

PROFILES EXPERIENCE

Analista de sistemas
Full Stack

WORK EXPERIENCE

31/07/2018
-
Now

TECHNOSYSA
(private)
Bogotá D. C.
System Analyst

Creating Python language programs. Installation of the venv environment, install packages with pip, Scraping with Selenium, command line applications, packages Numpy, Pandas, Ploty, http.server, Django, modular development software, compilation for distribution

React.js Front-end development. Creation of web templates for product samples. Creation of a web article editor in React.js. Configuration of a MercadoPago React component for receiving online payments. React component for modifying image sizes online. Component for registering new products in the Globatienda.com store.

Databases. Entity-Relationship Model, Query tuning (stored procedures, functions, regular expressions, etc.) in MySQL.

Design and implementation of mobile apps using AndroidSDK y Java SDK
I worked doing the following activities:

Preliminary design of the apps, using MVP model, Implementation of the object classes in Java and Kotlin, creation of the interfaces for the mobile inherited from

AppCompatActivity, Activity creation with Fragments, Creating asynchronous communication task inherited from AsyncTask, modular development software, Gradle dependencies configurations and compilations, SQLite database design and implementation

Design and implementation of web site

<https://www.technosysa.com/> for the brand Globanuncio, and virtual stores Globastore y Globatienda
Tools used: WordPress, HTML, CSS, PHP, MySQL, PHP APIs JSON data creation, PHP Server hosting deploy

ChatBox creation using: PHP, JavaScript, Ajax XMLHttpRequest, Node.js jQuery, MySQL

Web service RESTful creation. plug-in RESTful Web Services (JAX-RS) RESTKit-JAX-RS installations, Maven archetype web app creation, testing in Tomcat Server, dependencies configuration with pom.xml Maven
Fix web.xml, Generation War file to deploy RESTful in Tomcat server

Design and development web module for control expenses
Languages: HTML, CSS, PHP, JavaScript

24/11/2009 *Design and development Java applications using:*
- Java Swing (Front-End)
31/10/2015 Hibernate Java (ORM framework for data access)
Java Threading
IntelliJ IDEA (IDE)

Design and developments of a invest portfolio algorithm using Python and MT4

MINISTERIO DE LA PROTECCION SOCIAL

(Public entity)

Bogotá D. C

Systems Analyst

SISPRO Project

Support to General Directorate of Planning and Policy Analysis in new queries and reports implementation, optimization of the existing queries and reports, requirements and maintenance for SISPRO software, Software testing, receiving software products and delivery to production for SISPRO or its components.

20/JUN/2007 *Tools: Microsoft Visual Studio 2015*
- *Microsoft SQL Server 2014*
02/AGO/2009 *Microsoft SQL Server 2014 Integration Services (SSIS). Data load with ETLs*
Microsoft SQL Server 2014 Reporting Services
Applications designed and worked: PET, SISSUB, PISIS, SISMED, Seguridad
<https://www.sispro.gov.co/Pages/Home.aspx>
<https://www.sispro.gov.co/pisis/>
<https://web.sispro.gov.co/>

UT GRUPO GESFOR

(España private company)

Bogotá D. C.

System Analyst

Projects carried out in outsourcing:

MINISTERIO DE LA PROTECCION SOCIAL
(Public entity)

Analysis, design, and requires development for the Information System for the Territorial Operation of the Subsidized Health Regime SISSUB, inside the Integral System of the Protection Social Information SISPRO

Analysis, design and development requirements for the Integration Platform of Integral System information Social Protection PISIS, inside the Integral System Social Protection information SISPRO

*Tools: Microsoft Visual Studio 2005
Microsoft SQL Server 2005
Microsoft SQL Server 2005 Integration Services (SSIS)
Microsoft SQL Server 2005 Reporting Services*

GAS NATURAL S.A ESP (Public services company)

Outsourcing GIV Gestion Integrada de Ventas (SIM Sales Integral Manage) project

Activities: Analysis, design and integration in GIV(SIM) of the spontaneous demand natural gas reinstallation process

Platforms: Oracle 10g, Oracle Developer Suite 10g (Designer, Forms, Reports)

Adaptation of the new requirements to Sistema de Apoyo a la Gestión Económica SAGE-CMM of Gas Natural company

*Tools and Languages:
Java, Eclipse SDK v. 3.4.0, Struts, JSP, Oracle 10g, pl/sql*

DEPARTAMENTO NACIONAL DE PLANEACION DNP
(Public entity)

Analysis, design and software construction for the new **SISBEN** system information

Activities: Requirement análisis, Design techniques specifications
Testing Use case design, software development

21/06/2006
- 05/10/2006

INFORMATICA Y TECNOLOGIA LTDA
Certificada ISO 9001:2000 por BVQI,
Santafé de Bogotá D. C.
Developer Junior

Projects carried out in outsourcing:

TELMEX-Colombia.

Activities: Collect, specification and requirement análisis for the projects related with the CRM-TELMEX Colombia renovation process (E-Care, ONYX); Design and Web Applications development to cover integration systems needs in TELMEX-Colombia.

Application of the CMM model as software construction methodology inside the internal process in Sistema de Gestión de Calidad de INFORMATICA Y TECNOLOGIA

22/04/2005
- 20/06/2006

ACTIVESOFT & Cia. Ltda.
(Private company)
Santafé de Bogotá D. C.
Analyst - Developer - ERP XIRUX

Activities: Collect, specification and requirements Analysis, prototype software design, software development

Tools: SQL Server 2000 (Transact-SQL, stored procedures), Visual Basic 6.0, Crystal Reports, UML, DOO, POO

Main works carried out:

BIOCHEM Farmacéutica de Colombia.

Design and development of integrated system for capture, approval and orders massive billing in pharmaceuticals companies

Design and developments of Banc Reconciliations System

MALOKA S. A.

Migration of the administrative database ERP-Xirux

02/06/2004 –
15/03/2005

TRANSPORTES JOALCO S. A.
(Private company)
Santafé de Bogotá D. C.
Systems manager

Administrations Area Systems

Activites: **Control and trace of the Linux Project in development** [Trans@web](#). Extranet administration, LAN administration (users, securities policy, firewall). Creation and administration of email server, help-desk, and national level user support

**EXPERIENCE BY
LABOR CONTRACT
WORK**

28/02/2004
- 22/05/2004

HOTEL CONNECTIONS LTDA.
Santafé de Bogotá D. C.
Developer

Design and development web software for consult, generation and manage hotel information

Activities: Design and developmetn software using client-server technologies (ASP, HTML, VBScript, JavaScript, Java, Visual Basic). Design and development relational databases with SQL Server, Testing software

20/06/2001
20/09/2001

CLUSTER DE NEGOCIOS DIGITALES CND S. A.
Santafé de Bogotá D. C.
Development

Design and development web software for Multilevel Sales

Activities: Design and development software using client-server technologies (ASP, HTML, VBScript, JavaScript, Java, Visual Basic). Design and development relationals databases in SQL Server. Testing software

Personalized training for student (systems topics)

KNOWLEDGE

Acronyms:

ELM: Elemental knowledge
BAJO: At level user.

MED: Basic functional task level
ALTO: Range between high interaction with the tool versión – and its complete administration at 100%

Languages, frameworks and packages:

Python	ELM	BAJO	MED	ALTO	XML	ELM	BAJO	MED	ALTO
Django	ELM	BAJO	MED	ALTO	Machine learning	ELM	BAJO	MED	ALTO
Selenium-scraping	ELM	BAJO	MED	ALTO	React.js	ELM	BAJO	MED	ALTO
Android SDK	ELM	BAJO	MED	ALTO	Node.js	ELM	BAJO	MED	ALTO
Java JDK	ELM	BAJO	MED	ALTO	Java – (J2EE)	ELM	BAJO	MED	ALTO
Java Script	ELM	BAJO	MED	ALTO	PHP	ELM	BAJO	MED	ALTO
					PHP - Wordpress	ELM	BAJO	MED	ALTO
HTML 5	ELM	BAJO	MED	ALTO	CSS	ELM	BAJO	MED	ALTO
jQuery	ELM	BAJO	MED	ALTO	JSON	ELM	BAJO	MED	ALTO

ASP.NET 4.0	ELM	BAJO	MED	<u>ALTO</u>	C#.Net	ELM	BAJO	MED	<u>ALTO</u>
VB.Net	ELM	BAJO	MED	<u>ALTO</u>	Microsoft .Net Framework 4.5	ELM	BAJO	MED	<u>ALTO</u>
MT4	ELM	BAJ	MED	<u>ALTO</u>	Microsoft Visual Studio 2015	ELM	BAJO	MED	<u>ALTO</u>
					PL/SQL	ELM	BAJO	MED	<u>ALTO</u>
Servers					Visual Basic para aplicaciones (VBA en Excel)	ELM	BAJ	MED	<u>ALTO</u>
XAMPP(Servidor web Apache, PHP, MySQL)	ELM	BAJO	MED	<u>ALTO</u>					
Design and development methodologies:									
RUP	ELM	BAJO	<u>MED</u>	ALTO	UML	ELM	BAJO	MED	<u>ALTO</u>
Herramientas de control de código fuente: Team Foundation	ELM	BAJO	<u>MED</u>	ALTO	Programación Orientada a Objetos (POO)	ELM	BAJO	MED	<u>ALTO</u>
Git - Github	ELM	BAJO	MED	<u>ALTO</u>					
Herramientas de control de código fuente: TortoiseSVN	ELM	BAJO	MED	<u>ALTO</u>	Arquitecturas orientada a servicios API RESTFul, SOAP (Web Services)	ELM	BAJO	MED	<u>ALTO</u>
					Multi-threading	ELM	BAJO	<u>MED</u>	ALTO
Operating Systems:									
Windows 10	ELM	BAJO	MED	<u>ALTO</u>	Windows Server 2016	ELM	BAJO	<u>MED</u>	ALTO
					Unix FreeBSD / Linux SuSE	ELM	BAJO	<u>MED</u>	ALTO
Databases:									
MySQL	ELM	BAJO	MED	<u>ALTO</u>	Microsoft SQL Server 2014	ELM	BAJO	MED	<u>ALTO</u>
SQLite for mobiles	ELM	BAJO	MED	<u>ALTO</u>	Transact-SQL (SQL Server)	ELM	BAJO	MED	<u>ALTO</u>
Microsoft SQL Server 2014 Integration Services (SSIS) Load data with ETLs	ELM	BAJO	MED	<u>ALTO</u>	Microsoft SQL Server 2014 Reporting Services	ELM	BAJO	MED	<u>ALTO</u>
Objetos SQL Store procedures (SQL Server)	ELM	BAJO	MED	<u>ALTO</u>	DB2	<u>ELM</u>	BAJO	MED	ALTO
ORACLE 10g	ELM	BAJO	MED	<u>ALTO</u>	Informix	<u>ELM</u>	BAJO	MED	ALTO
Access	ELM	BAJO	MED	<u>ALTO</u>	Visual FoxPro	ELM	<u>BAJO</u>	MED	ALTO
Crystal Reports	ELM	BAJO	<u>MED</u>	ALTO					
Media and graphic design:									
Adobe Photoshop	ELM	BAJO	<u>MED</u>	ALTO	Macromedia Flash MX	ELM	<u>BAJO</u>	MED	ALTO
Fireworks 4	ELM	<u>BAJO</u>	MED	ALTO	Adobe Premiere	ELM	BAJO	<u>MED</u>	ALTO
Networks:									
Desarrollo de intranets	ELM	BAJO	<u>MED</u>	ALTO	Redes de Área Local LAN	ELM	BAJO	<u>MED</u>	ALTO
Tecnologías Cliente – Servidor, Internet TCP/IP	ELM	BAJO	MED	<u>ALTO</u>	HP OpenView MANAGEX (Administración de redes)	ELM	BAJO	<u>MED</u>	ALTO
Exchange Server	ELM	BAJO	<u>MED</u>	ALTO	Básico: Word, Excel, Power Point, Outlook, Project	ELM	BAJO	MED	<u>ALTO</u>

EDUCATION

Courses:
Julio /2006

INTRODUCCION AL DESARROLLO DE APLICACIONES WEB CON .NET
ACIS.
Santafé de Bogotá D. C.

University:
1997 – 2004

INGENIERÍA DE SISTEMAS
UNIVERSIDAD NACIONAL DE COLOMBIA.

Santafé de Bogotá D. C.

Degree project:

"Desempeño del protocolo inalámbrico WAP sobre redes digitales celulares de banda ancha 2.5G MAN, mediante simulación"

Student practice:

FINANCIERA COOPERATIVA COLOMBIANA DE INGENIEROS-FINANCIAR, Santafé de Bogotá D. C.

Activities: Strategic planning, systems strategic planning, análisis, diagnosis, and design of information system

Lines of professional deepening:

Networks and telematics:

*Sistemas Distribuidos
Nuevas Tecnologías en Redes
Administración de Redes*

Systems management:

*Gestión y Planeación de Tecnología
Gerencia de Proyectos Informáticos
Gerencia de Empresa*

Contextualizations:

Desarrollo económico y social S. XX.
Principios básicos de Derecho.
Negociación de conflictos.

Secondary
education:
1985 – 1990

Bachiller Técnico Industrial.

Instituto Técnico Industrial L. P. N.
Ocaña (Norte de Santander)

**PROFESSIONAL
PROFILE**

I am a Systems Engineer graduated from the National University of Colombia, Bogotá headquarters.

The emphasis of my training and professional experience has allowed me to develop research, analysis, design, development and systems synthesis skills; ability to address problems from organizational and systemic approaches; efficiently incorporate methodologies and strategies in the implementation of projects.

Among my work experiences I can highlight: interviews with users to obtain and specify requirements, analysis of requirements for their transformation, designing implementable algorithms, design of pages and websites, design and implementation of relational databases. Creation and administration of servers; Control and Administration of web development projects. Help Desk. Advice on updating and purchasing hardware and software.

Among my personal strengths I point out that I am entrepreneurial and persistent, I have an attitude of teamwork, communication, adaptability to changes, creativity, self-motivation, commitment and responsibility.

My professional goal is to continue specializing in the area of Information Systems Engineering.

LANGUAGES

Primera
lengua: SPANISH

Idioma 2: ENGLISH
Writing: 90%
Reading 100%
Speak 40%

PERSONAL**REFERENCES**

Lucelly Cajas
Líder Gestión de Transición y Gestión de Problemas
Empresa de Teléfonos de Bogotá ETB
Bogotá
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<https://www.linkedin.com/in/lucelly-cajas-24701a1aa/>

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