



# JOSE ALIRIO PACHECO SOLANO

## SYSTEM ENGINEER

### National University of Colombia

C. C. N° 88.280.028 from Ocaña (Norte de Santander, 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

#### **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

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*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 pop.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*

*Design and development Java applications using:  
Java Swing (Front-End)  
Hibernate Java (ORM framework for data access)  
Java Threading  
IntelliJ IDEA (IDE)*

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

24/11/2009  
-  
31/10/2015

**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.

*Tools: Microsoft Visual Studio 2015*

*Microsoft SQL Server 2014*

*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/>

20/JUN/2007  
-  
02/AGO/2009

**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  
Plataform of Integral System information Social Protection PISIS,  
inside the Integral System Social Protection information SISPRO

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

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**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 re installations 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, store 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

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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**

28/02/2004

**HOTEL CONNECTIONS LTDA.**

Santafé de Bogotá D. C.

**Developer**

**LABOR CONTRACT**

- 22/05/2004

**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

**WORK**

20/06/2001

**CLUSTER DE NEGOCIOS DIGITALES CND S. A.**

Santafé de Bogotá D. C.

**Development**

20/09/2001

**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	<b>ALTO</b>	XML	ELM	BAJO	MED	<b>ALTO</b>
Django	ELM	BAJO	<b>MED</b>	ALTO	Machine learning	ELM	<b>BAJO</b>	MED	ALTO
Selenium-scraping	ELM	BAJO	<b>MED</b>	ALTO	React.js	ELM	BAJO	<b>MED</b>	ALTO
Android SDK	ELM	BAJO	MED	<b>ALTO</b>	Node.js	ELM	BAJO	<b>MED</b>	ALTO
Java JDK	ELM	BAJO	MED	<b>ALTO</b>	Java – (J2EE)	ELM	BAJO	MED	<b>ALTO</b>
Java Script	ELM	BAJO	MED	<b>ALTO</b>	PHP	ELM	BAJO	MED	<b>ALTO</b>
					PHP - Wordpress	ELM	BAJO	MED	<b>ALTO</b>
HTML 5	ELM	BAJO	MED	<b>ALTO</b>	CSS	ELM	BAJO	MED	<b>ALTO</b>
jQuery	ELM	BAJO	MED	<b>ALTO</b>	JSON	ELM	BAJO	MED	<b>ALTO</b>
ASP.NET 4.0	ELM	BAJO	MED	<b>ALTO</b>	C#.Net	ELM	BAJO	MED	<b>ALTO</b>
VB.Net	ELM	BAJO	MED	<b>ALTO</b>	Microsoft .Net Framework 4.5	ELM	BAJO	MED	<b>ALTO</b>
MT4	ELM	BAJ	MED	<b>ALTO</b>	Microsoft Visual Studio 2015	ELM	BAJO	MED	<b>ALTO</b>
					PL/SQL	ELM	BAJO	MED	<b>ALTO</b>
<b>Servers</b>					Visual Basic para aplicaciones (VBA en Excel)	ELM	BAJ	MED	<b>ALTO</b>
XAMPP(Servidor web Apache, PHP, MySQL)	ELM	BAJO	MED	<b>ALTO</b>					

**Design and development methodologies:**

RUP	ELM	BAJO	<b>MED</b>	ALTO	UML	ELM	BAJO	MED	<b>ALTO</b>
Herramientas de control de código fuente: Team Foundation	ELM	BAJO	<b>MED</b>	ALTO	Programación Orientada a Objetos (POO)	ELM	BAJO	MED	<b>ALTO</b>
Git - Github	ELM	BAJO	MED	<b>ALTO</b>	Arquitecturas orientada a servicios API RESTFul, SOAP (Web Services)	ELM	BAJO	MED	<b>ALTO</b>
Herramientas de control de código fuente: TortoiseSVN	ELM	BAJO	MED	<b>ALTO</b>	Multi-threading	ELM	BAJO	<b>MED</b>	ALTO
<b>Operating Systems:</b>									
Windows 10	ELM	BAJO	MED	<b>ALTO</b>	Windows Server 2016	ELM	BAJO	<b>MED</b>	ALTO
					Unix FreeBSD / Linux SuSE	ELM	BAJO	<b>MED</b>	ALTO
<b>Databases:</b>									
MySQL	ELM	BAJO	MED	<b>ALTO</b>	Microsoft SQL Server 2014	ELM	BAJO	MED	<b>ALTO</b>
SQLite for mobiles	ELM	BAJO	MED	<b>ALTO</b>	Transact-SQL (SQL Server)	ELM	BAJO	MED	<b>ALTO</b>
Microsoft SQL Server 2014 Integration Services (SSIS) Load data with ETLs	ELM	BAJO	MED	<b>ALTO</b>	Microsoft SQL Server 2014 Reporting Services	ELM	BAJO	MED	<b>ALTO</b>
Objetos SQL Store procedures (SQL Server)	ELM	BAJO	MED	<b>ALTO</b>	DB2	<b>ELM</b>	BAJO	MED	ALTO
ORACLE 10g	ELM	BAJO	MED	<b>ALTO</b>	Informix	<b>ELM</b>	BAJO	MED	ALTO
Access	ELM	BAJO	MED	<b>ALTO</b>	Visual FoxPro	ELM	<b>BAJO</b>	MED	ALTO
Crystal Reports	ELM	BAJO	<b>MED</b>	ALTO					
<b>Media and graphic design:</b>									
Adobe Photoshop	ELM	BAJO	<b>MED</b>	ALTO	Macromedia Flash MX	ELM	<b>BAJO</b>	MED	ALTO
Fireworks 4	ELM	<b>BAJO</b>	MED	ALTO	Adobe Premiere	ELM	BAJO	<b>MED</b>	ALTO
<b>Networks:</b>									
Desarrollo de intranets	ELM	BAJO	<b>MED</b>	ALTO	Redes de Área Local LAN	ELM	BAJO	<b>MED</b>	ALTO
Tecnologías Cliente – Servidor, Internet TCP/IP	ELM	BAJO	MED	<b>ALTO</b>	HP OpenView MANAGER (Administración de redes)	ELM	BAJO	<b>MED</b>	ALTO
Exchange Server	ELM	BAJO	<b>MED</b>	ALTO	<b>Básico:</b> Word, Excel, Power Point, Outlook, Project	ELM	BAJO	MED	<b>ALTO</b>

## 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

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**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)

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**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.

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**LANGUAGES**

Primera lengua: SPANISH

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

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**PERSONAL  
REFERENCES**

Lucelly Cajas  
Líder Gestión de Transición y Gestión de Problemas  
*Empresa de Teléfonos de Bogotá ETB*  
Bogotá  
Móvil: 300-2652199  
<https://www.linkedin.com/in/lucelly-cajas-24701a1aa/>

Leonardo Fernández García  
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Bogotá  
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Colombia

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