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JUAN FERNANDO JARAMILLO – Systems Engineer

## Summary

* Dynamic and ingenious software developer with over 25 years of experience in producing robust code for high-volume companies. Eager to support your dev team. with top-notch coding skills. In previous roles, been mentor in best developing practices, as Agile, Clean Code among others.
* With proved mathematical, and statistical knowledge, having a BSc in Physics with a Minor in Computer Science and Math, and a science postgraduate in Actuarial Sciences. Better Statistician than a Developer and better Programmer than a Statistician.
* With expertise in the Imperative, Functional, and Object Oriented languages paradigms, that make me allow to learn a new languages in a short time, reducing the learning curve to his minimal expression, making me proficient y many languages.
* With experience of many years in data engineering, with robust knowledge in SQL, Stored Procedures, NoSQL, ETLs, DSS, Caching, and Queue Messaging and Big Data.
* Strong knowledge in embedded systems, and hardware

Skills

* Programming languages: Python, C, C++, Java, Clojure, JavaScript, Batch, Bash, SQL.
* OS: Linux, Windows, Android
* Cloud: AWS, GCP. AWS Cloud Practitioner Certified.
* Containers: Dockers, Kubernetes, VMWare, Vagrant, Debootstrap.
* CI/CD: Jenkins, CircleCI
* Database Management Systems: Oracle, PostgreSQL, MySQL, RDS, MongoDB, SQLight, Aurora, BigQuery, RedShift, DocumentDB, Redis, RabbitMQ, SQS, Snowflake.
* Math Tools: NumPy, Pandas, Root, Mathematica, Octave.
* Version Control: CVS, Subversion, Mercurial, Git
* Methodologies: Scrum, Kanban, Waterfall, TDD, CleanCode,
* Other: S3, Glacier, EC2, Lambda, EFS, ElasticCache, SQS, SNS.

## Work Experience

**Dec 2021 – Jun 2023** **Senior Data Engineering, backend developer**

**Ebury,** [**www.ebury.com**](http://www.ebury.com/)**, exchange Fintech:**

**Tasks performed:**

* My work consisted on the migrating the monolithic backoffice ORM in Django to BigQuery using dbt and airflow.
* Optimization of adhoc reports, and ETLs using Python, Bash, or SQL as needed, either by creating Dockers containers, which ran on Kubernetes, or procedures in Confluence.
* The infrastructure is partly based on AWS and partly on GCloud.

Technologies:

* Airflow, dbt, python, BigQuery, Linux, Docker, Kubernetes.

**Mar 2020 – Dec 2021** **Senior Python Developer, Globant Software development company**

**Customer:** Johnson & Johnson

**Tasks performed:**

* Developed plugins plugins for DataikuDSS improving the functionality
* Clean code in the Data Science team of Johnson & Jhonson.

**Technologies:**

* Python, Postgres, DataikuDss

**Customer:** Smile Direct Club

**Tasks performed:**

* SmileBuilder and SmileTreatment; Orthodontic treatment software for Smile Direct Club. strong development using Differential Geometry to reproduce jaws in 3D.

**Technologies:**

* Bash, C++, Java, Postgres.

**Jan 2016– Nov 2019** Consultant, Developer and Data Science, OpDevel

**Customer: Tpaga, Wallet app**

**Tasks performed:**

* Fraud Prevention, reduction of fraud in 7% in the Walled App, by creating an innovative new methodology.

**Technologies:**

* *Python, Ruby on Rails, Postgres.*

**Customer:** Crossover

**Tasks performed:**

* Data Processing.

**Technologies:**

* *Python, Postgres, FoxPro.*

**Customer:** Certicamara, certification company

**Tasks performed:**

* Developing Lambda microservices, for an application in DropWizard as backend and NodeJS as frontend NodeJS with REST architecture, using MongoDB, RabbitMQ, and helping with the architecture using AWS and GCP with Kubernetes.

**Technologies:**

* *Java8, AWS, GCP, Kubernetes, MongoDB, RabbitMQ, NodeJS..*

**Customer:** Assisprex

**Tasks performed:**

* I built scrapper to consult medicines on web pages, to Assisprex’s call center.
* Voice recognition system, to phone call transcription in call center at Assisprex company.
* Tracking and video streaming system for vehicle.
* Consultant. Video capturing system and 3D scene reconstruction of vehicle accidents.

**Technologies:**

* *Python, C++, CUDA.*

**Customer:** GSD+, Consultant company

**Tasks performed:**

* Conceptual Design of IT infrastructure budget in Toll concession Honda - Girardot. Caracol transport software in Haiti.

**Technologies:**

* *Excell, PowerPoint.*

**Feb 2013 – Dec 2015** PO, PM, and Senior programmer, Brückner, Film Stretching Line

**Tasks performed:**

* PEM process program, for customers. Develop a model to improve the process of our customers.
* Development of a MRP, based on Odoo with application on stretching lines.

**Technologies:**

* *Python, Odoo, Java, Jboss, Oracle, Postgres, Eclipce RCP, Maven.*

**Jun 2010 – Feb 2013** Data Scientist, Research Programmer, EmQbit

**Tasks performed:**

* Data Scientist for Risk and Fraud Detection in the project Detect TA, and DTA.
* Develop Web application, under Google App Engine, for mortgage management.
* Develop of mathematical models for mortgage assignments.
* Application development for the safety of voting machines using cryptographic keys at booting time in Linux, by altering the Kernel at boot time.
* Application for Book Self Checking, in the National University’s library.

**Technologies:**

* *Python, C++, C, Linux, Root, GAE, Postgres.*

**Jan 2007 – Jun 2010** CTO, PM, Programmer, MIG International

**Tasks performed:**

* Automatic identification systems such as radio frequency identification (RFID) and optical character recognition (OCR), with adaptations.
* Embedded camera, using FPGA to make Line Plate Recognition.
* RFID equipment development in Germany, that uses FPAA to process the Tag signal.

**Technologies:**

* *Python, C++, Postgres, Linux, Embedded Systems, FPGA, FPAA, Octave, C, Linux, Root, GAE, Postgres.*

**Jun 2004 – Dec 2006** Casualty Actuary, Allianz Colseguros S.A. Insurance Company.

**Tasks performed:**

* Designer of the BD CEXPER, a subscription credit bureau.
* Analysis of Technical Note for automobile’s vice presidential.
* Organization of the Second National Symposium of Actuary.
* Developer the connector between the software Tricast to the company's software.
* Evaluation of software for the actuarial team, Emblem and Tricast.

**Technologies:**

* *C++, SAS, SPSS, Tricast, Emblem, Octave, Oracle.*

**Dec 2002 – Jan 2004** Statistical QC, PGS Onshore. Seismic Company.

**Tasks performed:**

* Analysis of statistics.
* Development of ERP (Pachallaqta) to manage projects using 3D seismic in C++ and Oracle.

**Technologies:**

* *C++, Oracle, Escell.*

**Jan 1996 – Dec 2001** IT Manager, Developer, Xania LTDA.

**Tasks performed:**

* Software for assessment of losses in motor vehicles (Palm Pilot), Company Subocol.
* Software Infoban: for the Ministry of Justice (Web - Oracle Web Server, C, C++)
* ERP support and migration of the ERP core from Pascal to Delphy, and develop of Software Edition and Educational Building Development Manager.
* Educational software. Company Telemundo Editors. Using Macromedia products “Authorware, Director”, Visual Basic, Pascal, and Borland Delphy C.
* Creation of the emulator for NDC + (protocol of NCR and Diebold ATM) for ATM Tryton using C++. Company RK Technologies, a company dedicated to the production of ATM and banking software.
* Built and programmed robot automation for the Children’s Museum in Bogotá. Company Microservicios
* Developing a search algorithm for DOS software and development of hypertext software for Windows 3.1 using Borland C++. Company Leginfo Ltda.

**Technologies:**

* *C++, C, Pascal, Delphi, Visual Basic, TCP/IP, Linux, Oracle Web Server, OracleDB, Authorware Director.*

## education

**Bachelor of Science Degree** in Physics, with minor in Mathematics and System Engineering and Computers, Universidad de los Andes of Szeged

* **Specialty:** Applied Physics

**Specialization in Actuarial Science Degree** in Actuary, Universidad Antonio Nariño

* **Specialty:** Casualty Actuary

**Certifications:**

* AWS Cloud Practitioner