Víctor Polo de Gyves Montero

+ 52 55-4926-9478
<<victor.degyves@koneksys.com>>

Morelos e Independencia, Segunda Sección. Juchitán Oaxaca, Zip Code: 70000

Experience

Developer and Linked Data Researcher at Koneksys

1. Java toolkit to migrate data from IBM DOORS Classic to IBM RQM and DNG (January 2019 - April 2020)

   a. Project leader and backend for a java toolkit to migrate data from IBM DOORS classic to IBM RQM and IBM DNG. I was responsible to lead the project and also I was the developer who created the API to communicate with IBM DNG, IBM RQM, IBM Global Configurations, enable authentication and parallelize the API to support concurrent migration. RDF, OSLC and several IBM APIs like the IBM DNG Reportable REST API and IBM QM Reportable Rest API were used.

   b. Clients: River North Solutions, Johnson & Johnson, Aerojet Rocketdyne.

2. Web application to create an user-friendly interface for a java toolkit to migrate data from IBM DOORS Classic to IBM RQM and DNG (October 2019 - April 2020)

   a. Project leader and front-end developer for a web application which, given a command-line based java toolkit to migrate data from IBM DOORS to IBM QM and DNG, provides a web-based UI with alerts, statistics and capability to store different settings. I applied HTML5, CSS, vanilla Javascript and Vue.js to create the application.

   b. Clients: River North Solutions, Johnson & Johnson, Aerojet Rocketdyne.

3. Widget toolkit for IBM DNG 6.x (february - march 2020)

   a. I created a Widget application for IBM DNG 6.x, which is installed inside the IBM CLM application server, so it is directly available at the web UI of IBM DNG. This widget filtered requirements inside a DNG module, then it read some properties, then calculated a few results and updated each requirement. For this task I used javascript, CSS, HTML and several sources to create IBM Widgets for CLM applications.

   b. Clients: River North Solutions, Johnson & Johnson

4. Maintenance and documentation of an API to interact with IBM DNG and IBM GC version 6 (july 2018 - december 2018)

   a. It was given to me a java library which was able to execute operations over IBM and IBM DNG applications like: create, delete, update, query and link RM artifacts and modules and browse IBM GC configurations. I finished the implementation and did tests and fixes required to make it work with IBM CLM version 6.0.6, then added documentation. I applied knowledge about OSLC Rest APIs and IBM DNG Reportable REST API.

   b. Clients: Sodius

5. Develop a library to manage IBM DNG modules for IBM CLM 6.x (july 2017 - december 2017)

    a. IBM DNG modules are not supported by the OSLC standard. A requirement for a customer lead to create a library to support operations over modules (reorder its artifacts, create hierarchies inside a module, update the hierarchy, create and delete links to module elements, query over modules to find artifacts). I applied knowledge for OSLC, IBM DNG Reportable REST API and analysis of the web UI of IBM DNG.

    b. Clients: AirBus

6. Research to create a distributed graph database supporting RDF/XML (january 2017 - july 2017)

    a. I did some research and evaluation of the state-of-the-art of graph databases, which scale-out support they provide and at which consistency, availability and partition tolerance tradeoffs. Then did an evaluation of which technologies would be better to create a new solution. For this project I tested CockroachDB, VoltDB, AllegroGraph, JanusGraph, Apache Jena.

    b. Clients: Koneksys

Non-profit organizations

1. 2017-2020. Chairman of Oaxacode: A non-profit organization to bring talks of Information and Communication Technology to the community of students of Oaxaca, Mexico.

    a. With the help of top developers in Mexico, I did used Facebook Live, Slack and GitHub to share free courses to computer science - related students to provide them with the trust and confidence to make it easy to them to find a job.

Manager of New Technologies at ITComplements

1. Manager of new technologies at ITComplements. Data interoperability on Healthcare (january 2016 - december 2016)

    a. I was in charge to research the technologies and standards to add an interface to an Electronic Health Records Software to make it compliant with interoperability requirements of the mexicano government. For this task, I learnt about RDF/XML, FHIR, HL7 v3 specifications for Electronic Health Records management. I identified the required technology and built a team to develop the required library.

    b. Clients: Secretaría de Salud del Estado de Puebla, México.

Advisor at PEMEX

1. 2011-2015, Advisor on PEMEX for computational algorithms of finance.

    a. I developed stochastic and deterministic algorithms to evaluate oil & gas project portfolios using net present value, real options for for project portfolio evaluation and monte carlo. For this project I applied Fortran 95 and Java. A lot of mathematical research was used to implement the latests methods available in the oil and gas industry.

    b. Clients: PEMEX Exploration and Production, Oil and Gas.

2. Schlumberger México and PEMEX (2006). Advisor of software development.

3. I was hired to work as advisor on the development of stochastic systems capable to predict investments based on the use of computer simulation.

a. I created a team of developers who created two tools to stochastically evaluate oil and gas projects.

b. Clients: Schlumberger and PEMEX.

Government

1. 2008-2010, Elected member of the Council of Juchitan as Alderman of Finance.

    a. I was constitutionally elected to manage a government portfolio of finance on my local council of Juchitan, Oaxaca. I managed 200 persons and around 10 million USD dollars by year for three consecutive year, mainly to build basic infraestructure like drinking water supplies, electricity, basic scools and hospitals.

    b. Clients: Local council of Juchitan, Oaxaca, México.

2. Collaboration with the local Government of the Federal District's Civil Protection Department (january 2005 - december 2005)

    a. Draft of ATLAS-2, a program to coordinate the activities after a major disaster on the city (e.g. earthquakes). I applied knowledge on Geographical Information Systems, with the usage of PostgreSQL and PostGIS with Common Lisp and Java.

    b. Clients: Gobierno de la Ciudad de México, México.

Developer at SoftwarePro International

1. Project leader at SoftwarePro International developing BiblioDigital

    a. BiblioDigital is a digital library, mostly similar as Verity/K2, created using Lucene, Tomcat, Clasitex, etc (mostly opensource tools). A paper was published about BiblioDigital INEGI, also in Springer. Some licences of the program were sold.

    b. Clients: CONAFE, CONACYT, UAEH, Instituto Politécnico Nacional.UAEH, Instituto Politécnico Nacional.

Education

1. BS on Informatics, Unidad Profesional Interdisciplinaria de Ingenierías, Ciencias Sociales y Administrativas, Instituto Politécnico Nacional. May 1998, Aug 2003

2. High School COBAO "Pueblo Nuevo", Oaxaca. May 1995 - May 1998.

    a. Honors: Bronze medal on mathematics regional championship.

Research and Publications

1. IEEE International Symposium and School on Advance Distributed Systems ISSADS 2004: Lecture Notes in Computer Science. A distributed digital text accesing and acquisition system.

2. IEEE International Symposium and School on Advance Distributed Systems ISSADS 2005: Extending databases to precision-controlled retrieval of qualitative information

3. The Semantics of Confusion in Hierarchies: Theory and Practice in: Common Semantics for Sharing Knowledge: Contributions to ICCS 2005 13th International Conference on Conecptual

4. BiblioDigital, red para compartir información distribuida. Boletín de los Sistemas Nacionales Estadístico y de Información Geográfica , 2004.

Hobbies and interests

Indoor climbing

Sailing

Salsa dance teacher

Sweat lodge student

Languages

English: Fluent

Spanish: Native

French: Basic