

# Curriculum Vitae

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## Personal information and Curriculum Vitae

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### Contact information

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1. By phone
  - a. Please drop me a whatsapp first to register your phone number.
  - b. Calling from outside México:
    - i. To my cellphone: +52 55 4926 9478.
  - c. Calling from Mexico:
    - i. To my cellphone: 55 4926 9478.
2. Additional contact info:
  - a. E-mail to [victor.degyves@koneksys.com](mailto:victor.degyves@koneksys.com)
  - b. Or, to the Skype account: degyvesmontero.
3. Useful links
  - a. LinkedIn <https://www.linkedin.com/in/victor-polo-de-gyves-montero/>
  - b. GitHub <https://github.com/degyves>
  - c. StackOverflow <https://stackoverflow.com/users/6748042/victor-polo-de-gyves-montero>
  - d. Twitter <https://twitter.com/degyvesmontero>
    - i. I almost never use my twitter account

### Professional Experience

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1. 2004-2006. Work at SoftwarePro International creating BiblioDigital as project leader. BiblioDigital is a digital library, mostly similar as Verity/K2, created using Lucene, Tomcat, Classtex, etc (mostly opensource tools). A paper was published about BiblioDigital at INEGI, also in Springer. Some licences of the program were sold.
2. 2005. Collaboration with the local Government of the Federal District's Civil Protection Department. Draft of ATLAS-2, a program to coordinate the activities after a major disaster on the city (e.g. earthquakes).
3. 2006. Schlumberger México and PEMEX. Working as advisor on stochastic systems capable to predict investments based on the use of computer simulation.
4. 2008-2010, Elected member of the Council of Juchitan as Alderman of Finance.
5. 2011-2015, Advisor on PEMEX for computational algorithms of finance.
6. 2016, Manager of new technologies at ITComplements. Data interoperability on Healthcare.

7. 2016-2017. Independent Consultant and Researcher of Linked Data and Big Data at Koneksys. Data integration using web standards.
8. 2017-2020. Chairman of Oaxacode: A non-profit organization to bring talks of Information and Communication Technology to the community of students of Oaxaca.
9. 2018-2020. Developer and Researcher of Linked Data and Machine Learning at Koneksys.
  - a. 2019-2020. I led a project to translate data from IBM DOORS to IBM QM and IBM DNG (IBM CLM version 6)

## **Technical Knowledge**

### Programming languages

1. Backend
  - a. Java SDK (1.4 - 1.9), Different flavors of C and C++ and C . Python 2 and 3, Django, IPython. Fortran 90, 95, 2003. Prolog (Amzi! Prolog). PL/SQL, R, Octave, wxMaxima CAS and GNUPlot. Common Lisp (CCL and SBCL implementations).
2. Frontend
  - a. Javascript 5, 6, CSS, JSP, JSF, ASP

### Web experience

1. Developed and operated BiblioDigital, a scalable, high performant, federated digital repository of digital documents with a web front-end using servlets and HTML/Javascript/CSS.
2. Developed the web-based plots for the oil and gas company, PEMEX Exploracion y Produccion SEREH system. A scale-up service to perform economic evaluations.
3. Web apps with Java and Django
4. Fully compliant REST-consuming web interfaces at Koneksys over several projects
5. Technologies: ECMAScript 5 and 6, NodeJs 7.2, JQuery, ReactJs 15, Angular 4,
6. 2019-2020: Developed a Vue.js (javascript) web application to migrate DOORS ReqIf data from IBM DOORS to IBM QM and IBM DNG applications

### Backend experience

1. IBM CLM version 6
  - a. OSLC RM for IBM DNG version 6
  - b. Doors Next Reportable Rest API for IBM DNG version 6
  - c. OSLC QM for IBM CLM QM version 6
  - d. QM Reportable Rest API for IBM CLM QM version 6
  - e. OSLC QM for IBM CLM QM version 6
  - f. OSLC GC for IBM CLM GC version 6
  - g. Installation and setup of IBM CLM version 6
2. Java, EE 6 and 7 over Payara/Wildfly: JDBC, JPA, EJB's, JBoss Forge,
3. Economic evaluators, Black-Scholes to value currency options. Production forecasting decline curve analysis.
4. REST

- a. Design and programming of REST level 3 APIs with hypermedia
- b. Enhancement and automation of REST level 3 APIs OSLC (RDF/XML + REST)
- 5. DotNet backend programming with C#, IIS and NHibernate / Ms SQLServer
- 6. Django and Django REST Framework

## Operating Systems

- 1. OpenBSD, HP-UX, GNU/Linux and BSD \*NIX, Windows family from 4.0 to 2012 server, OSX.

## Databases, NoSQL PostgreSQL, Big Data

- 1. Document Stores
  - a. MongoDB 3.2 . Elasticsearch 5.4, Lucene from 2002, Solr 6.6
- 2. Scale-out
  - a. HBase 1.2, CockroachDB, Oracle 12c, Cassandra
- 3. Graph Databases
  - a. Apache Jena, TitanDB/JanusGraph/DataStax
- 4. Relational Databases
  - a. PostgreSQL (7.0 to 9.5), MySQL (from 3.x to 5), Firebird, HSQL, SQL Server 2000 - 2012, Access, dbase and Fox Pro databases, plain text and xml databases.
- 5. Big Data
  - a. IPC fifo, Unix domain sockets, tcp sockets, Fortran OpenMP, Map/Reduce with Apache Spark, Apache Jena, H2.
- 6. Home office tools
  - a. Slack, Atlassian, Jira. BitBucket, Github, Gitlab, Confluence, Zoom.
  - b. Google drive as office suite

## Healthcare

- 1. I was manager of new technologies at a project building Health Level Seven v3 (HL7 v3) adapters.
- 2. Interest about FHIR and Linked Data and OSLC capabilities on Healthcare.

Artificial Intelligence and Smart Searches . I have created a new implementation of Clasitex. Also made contributions on using ontologies for web searches. Also developed a smart web crawler (actually used on BiblioDigital). Did some research to measure qualitative values on databases.

## Studies

- 1. COBAO "Pueblo Nuevo", Oaxaca. High School.
- 2. ESIQIE, IPN. Metallurgical Engineering. Just 1 year.
- 3. UPIICSA, IPN. Undergraduate on Informatics Science.

## 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 Conceptual Structures, ICCS 2005 Kassel, Germany, July 2005
4. BiblioDigital, red para compartir información distribuida. Boletín de los Sistemas Nacionales Estadístico y de Información Geográfica , 2004.

Other interests

Indoor climbing, sailing, salsa dance teacher, sweat lodge student

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Last updated 2020-04-06 15:02:48 CDT