

Hernán Santiago González Toral

Curriculum Vitae

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SUMMARY OF QUALIFICATIONS

- Skillful in Big Data analysis and cognitive computing using Data Science, Machine learning and Deep learning techniques
- Experienced in the development and orchestration of platform solutions for backend, enterprise middleware and frontend for desktop, web and mobile
- Obtained industry experience as Senior Consultant at Soft Warehouse, through collaborating in the development of Fit-Bank Core System for financial institutions
- Knowledgeable in Semantic Web and Linked Open Data projects
- Proficient in software engineering methodologies for Agile development and continuous delivery
- Skillful as project manager and research assistant

EDUCATION

MSc Web Science and Big Data Analytics

University College London, London, UK

Computer Science Department, Faculty of Engineering

Main topics: Information Retrieval, Data Mining, Data Analysis, Complex Networks Analysis, Cloud Computing, Machine Learning, Deep Learning, Natural Language Processing

Thesis title: “*Learning to Recommend using a Deep Reinforcement Agent*”

Sept. 2015-

Sept. 2016

Bachelor degree in Systems Engineering

University of Cuenca, Cuenca, EC

Faculty of Engineering

Thesis title: “Hybrid mobile Application development to manage Bank Officers authorizations”

Cumulative qualifications: 89.24/100

2006 - 2011

PROJECT EXPERIENCE

Integrated Solution to Publish and Exploit Bibliographic Resources in the Linked Data Cloud

CEPRA VII Wining project

<http://www.cedia.org.ec/proyecto-plataforma-de-integracion-publicacion-y-consulta-integrada-de-recursos-bibliograficos-en-la-web-semantica>

- Developed an integrated core framework to publish and exploit bibliographic resources in the Semantic Web

Jan. 2014-

Sept. 2015

Web Graph-based Linked Data Query Builder and Executioner

Computer Science Department, University of Cuenca, EC

- Designed a Web application prototype to build graph-based SPARQL federated queries

Nov. 2014-

Jan. 2015

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Semantic Repository of Ecuadorian Researchers

March 2015 - Present

RED CEDIA - Computer Science Department, University of Cuenca, EC

- Implement a semantic platform to allow the discovery of common research areas

RESEARCH EXPERIENCE

Graduate Research Assistant

Feb. 2014-

Computer Science Department, Faculty of Engineering, University of Cuenca, EC

Sept. 2015

- Assisted in the development of a prototype to deliver the publication of the Dspace digital repositories of the Ecuadorian Universities in the Linked Data Cloud
- Developed and managed the LODGPlatform project to enable an easier way to integrate, publish and exploit any kind of data sources on the Linked Data Cloud
- Collaborated with a consultancy service, which aims to provide a base platform to manage BPM processes for the City Hall
- Designed and implemented a Web graph-based application to ease a Linked Data query builder and executioner for data federation and discovery
- Implemented a semantic repository of Ecuadorian academics, which will allow the discovery of common research areas and publications
- Cooperated with backend and frontend application development
- Outlined and planned the development lifecycle of the carried out projects
- Cooperated as software developer on different Linked Open Data projects

INDUSTRY EXPERIENCE

Senior Consultant

Sept. 2010 - Feb. 2014

Soft Warehouse, fit-bank.com, Cuenca, EC

- Developed a Web-based Enterprise Platform modules for banks and financial institutions based on the client requirements
- Completed tasks on time using SCRUM as a way for agile development
- Helped resolving reported issues on the system using related tools for source code management and bug tracking
- Introduced new approaches and solutions to extend the current ERP technology stack, including improvements for the Enterprise service bus, financial core middleware, and frontend modules
- Cooperated with continuous learning for software development and system's user training, both for clients as the company staff
- Managed and collaborated with a multi-disciplinary team of software engineers, economists, MBAs and technicians
- Collaborated as Assistant Chief Technology Officer for "Fenicios" ERP project
- Interacted with customers and partners

Consultancy services

March 2014 – June 2014

Soft Warehouse, Cuenca, EC

- Solved development issues on certain modules of the Financial ERP for Banks and Production Companies
- Collaborated with ideas to solve and deliver customer requirements

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Consultancy Services

August 2014 - October 2014

Cloud Services, Cuenca, EC

- Designed and developed a multi company and multi tenancy cloud system to manage electronic vouchers and transactions based on the Ecuadorian Government politics for sales markets

Full Stack Development

December 2016 -

SimpleRide, Cuenca, EC

- Developed a hybrid mobile application (android and iOS compatible) and a reactive backend platform for a community carpooling service

SKILLS

Programming Languages/Markup: Java SE8/EE6, Scala, Javascript (ECMAScript 5 and ECMAScript 6), Python, C/C++, HTML5, CSS3, PL/SQL ANSI, SPARQL

Machine Learning / Data Science libraries and frameworks: Scikit-learn, Tensorflow, Seaborn, numpy, pandas, Apache Hadoop, Apache Spark, OpenAI gym, Stanford CoreNLP, NLTK, genism, R, Turi

Data-related platforms: Pentaho Data Integration, JasperReports, Jaspersoft Studio, Tableau, LODRefine, Silk, Protégé, Elastic Search, Kibana, Logstash, OpenNER, Scrapy

Frameworks: Bootstrap, jQuery, PrototypeJS, BackboneJS, UnderscoreJS, MustacheJS, Meteor, AngularJS, Angular 2, Angular 4, NodeJS, Bower, OpenLayerJS, Hibernate, D3js, Ionic2, Ionic 3, Apache Cordova, Apache Kafka, Flask Microservices

Application Server Administration: Apache2, Jboss EAP 6.x, Apache Tomcat 7, NGINX

CI/Deployment/Orchestration: Docker, Heroku, Kubernetes, Jenkins

Database Administration: MySQL Server, PostgreSQL, Oracle, MongoDB, Cassandra

Operating System Administration: Ubuntu, Kali Linux, CentOS

Testing frameworks: JUnit, Karma, Protractor, JBehave, Selenium, Serenity

APIs: Google Maps, Facebook, Twitter, Google+, DBPedia Spotlight

Control System Management: Git, Mercurial, svn

Platforms: Liferay CMS, Apache Marmotta

IDEs: Netbeans, Eclipse, IntelliJ IDEA, PyCharm, Sublime Text, Xcode, Android Studio, Jupyter Notebook, Apache Zeppelin

Other Programs: Adobe Photoshop, Adobe Illustrator, Gimp, Inkscape, Matlab, JOSM, Omnigraffle, TeXShop

AWARDS & FUNDING

- SENESCYT Scholarship to study a Master's programme in Europe

December 2014

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REFERENCES

Dr. Jorge Mauricio Espinoza Mejia, Director'Professor

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Relationship: Director

Dr. Victor Hugo Saquicela Galarza, Researcher-Professor

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Relationship: Project Manager

Dr. Pablo Fernando Vanegas Peralta, Provost

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Relationship: Dean of the Faculty of Engineering