

# Hernán Santiago González Toral

## Curriculum Vitae

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🌐 <https://santteegt.github.io>

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🌐 <https://github.com/santteegt>

### 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

# Hernán Santiago González Toral

(page 2)

## 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

# Hernán Santiago González Toral

(page 3)

## 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

**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

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

**Operating System Administration:** Ubuntu, Kali Linux, CentOS

**Testing frameworks:** JUnit, Karma, Protractor

**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

# **Hernán Santiago González Toral**

(page 4)

## **REFERENCES**

**Dr. Jorge Mauricio Espinoza Mejia, Director'Professor**

Computer Science Department  
Faculty of Engineering  
University of Cuenca  
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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