

Hernan Santiago Gonzalez Toral

Mariano Cueva 6-55, Cuenca, EC010101

+593995757960 | hernangt12re3@gmail.com | <https://santteegt.github.io>

Summary

Data Science Engineer and a Full Stack developer with more than 6 years of experience in enterprise, web, and mobile software development. Currently enthusiastic and focused on big data science solutions and cognitive computing. Lead a team of an early stage startup that offers real-time data solutions.

Experience

Data Science Engineer & Research Assistant at *University of Cuenca* 2014 to present

- Enriching Electronic Programming Guides using NLP techniques and semantic technologies
- Semantic Platform of Ecuadorian Researchers: discoverability of common research areas
- Publication, Exploitation and Discoverability of Bibliographic Resources and related content in the Linked Data Cloud

Full Stack Developer at *Soft Warehouse S.A - Cloud Services - SimpleRide* 2010 to present

- Development of a hybrid mobile application and a reactive backend platform for a community carpooling service
- ETL, reporting and development of web-based enterprise platform modules for fintech

Education

MSc Web Science and Big Data Analytics from *University College London* 2015 - 2016

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

- Recommender system using a Deep reinforcement learning agent based on the DDPG algorithm and a Factorization Machine policy model. Tested on the 100k MovieLens dataset, it improved precision 8% average compared to a kNN-based policy

Other projects as a group leader

- CTR prediction experiment using a logistic regression model obtained a recall score of 0.72
- Collaborative filtering experimentation using different approaches (item similarity, popularity-based model and ranking factorization) over a sample dataset obtained from the MusicBrainz
- NLP tasks using language models and sentiment models
- Complex networks analysis for the Data Science Community Network: A Stack Exchange Study Case on Experts Users and Trending Topics

Bachelor degree in Systems Engineering from *University of Cuenca* 2006 - 2011

Technical Skills

Programming Languages/Markup

Java SE8/EE6, Scala, Javascript (ECMAScript 5/6), Python 2/3, C/C++, HTML5, CSS3, PL/SQL, T-SQL, SPARQL

Machine Learning / Data Science libraries and frameworks

Scikit-learn, Tensorflow, Seaborn, numpy, pandas, Hadoop, Spark, OpenAI gym, Stanford CoreNLP, NLTK, genism, R, Turi

Data-related platforms

Pentaho Data Integration, JasperReports, Tableau, OpenNER, LODRefine, Silk, Protégé, Elastic Search, Kibana, Logstash, Apache Marmotta, Gephi, Jupyter Notebook, Apache Zeppelin

Application Server Administration

Apache2, Jboss EAP 6.x, Jetty, Apache Tomcat, NGINX

CI/Deployment/Orchestration

Docker, Heroku, Kubernetes, Jenkins

Testing frameworks

JUnit, Karma, Protractor, Selenium, JBehave, Serenity

Other Frameworks

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