

Work Experience

Software Engineer (Intern)

Carlos III University of Madrid (for Bultaco Motors)
12.2013 – 06.2014

I led the design and development of a mobile app for Bultaco. The development included building a *Machine Learning* system that learns from user behavior to make consumption estimations. I also made a deep analysis of the different variables involved on the estimation model (motorbike telemetry data from SQL and CSV analyzed with *MS Excel*).

Skills: Java, Android, SQL, XML, SOAP, MVC, Agile (Kanban), Machine Learning, MS Excel.

Education

Data Analyst Nanodegree

Udacity (online)
04.2015 – Now

Built by industry and project-based curriculum for becoming a Data Analysis / Scientist.
<https://www.udacity.com/course/data-analyst-nanodegree--nd002>

Telecommunications Engineering (5 years degree, BSc+MSc)

Carlos III University of Madrid (Spain)
09.2008 – 09.2014

Average mark: 67/100. Top 15%. Main Coursework: Computer Science, Digital Signal Processing, Electronics, Communication Systems, Networking, Avionics, Statistics. Final Year Project distinction with Honours. Full text (spanish): <http://dsaiztc.com/PFC.pdf>

Other Technical Experience

Analyzing the NYC Subway Dataset

Data Analyst Nanodegree Project. Udacity (online)
06.2015

Use data munging techniques to clean OpenStreetMap data, converting it from XML to JSON format, importing the clean file into a MongoDB database and run some queries against it. <http://dsaiztc.com/OSMDataWrangling/>

Analyzing the NYC Subway Dataset

Data Analyst Nanodegree Project. Udacity (online)
05.2015

Statistical analysis of NYC Subway data. Looking for data trends with different analysis: statistical (regression analysis, hypothesis testing), raw data and visualizations. CSV data analyzed with different *python* data-analysis tools (*pandas*, *stats*, *matplotlib*, *ggplot*). <http://dsaiztc.com/NYCSubwayAnalysis/>

Secret Santa Android App

11.2014 – 12.2014

Develop an Android application for making Secret Santa draws (<http://www.dsaiztc.com/secretsanta>). >1800 downloads. Skills: Java, Android, SQL, UI/UX, HTML, Google Play Store.

Languages and Technologies

- Proficient in Java, SQL, Matlab, JSON, XML, CSV. Python (scripting & data analysis). Some exposure to HTML (screen scraping). Previous experience (college) with bash and C.
- Proficient in Eclipse IDE, Android, Web Services (SOAP, REST). Some exposure to Maven, JUnit, MongoDB, Google App Engine.