

Ignacio Guillermo Martínez Rincón

Data Engineer

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Education

Carlos III de Madrid University, Informatics Engineering September 2014–July 2019

- Bilingual: 99% of the credits coursed in English within an international environment.
- Last course GPA: 9.06/10.00 (3.625/4.00).
- Average 3rd Course: 8.8 / 10.0
- Global: 8 subjects graded with Outstanding.
- B.Sc. Thesis: Smartwatch-Based User Monitoring for Human-Robot Interaction (9.8/10.0 Honors Distinction) (Supervisor: José Carlos Castillo Montoya).
- Relevant Coursework: Security Engineering, Distributed Systems, Real-Time Systems, Computer Networks, Software Projects Development Management, Artificial Intelligence, Mobile Devices Security.

Employment

Analytics Junior Consultant, Oracle
Experience:

September 2019–Present

- Data Science and Data Engineering
 - * Develop and integrate all workflow pipelines and data processing from APIs to databases
 - * Analysis of different predictive models (Linear regressor, Random Forest, GMM)
 - * Complex ETL processes
- Cloud Infrastructure and DevOps
 - * Design network and compute infrastructures using Oracle Cloud Infrastructure
 - * Provision and maintain necessary resources for projects using Oracle Cloud Infrastructure
 - * Automatic deployment and configuration of Cloud infrastructure using Terraform and Ansible
 - * Jenkins and OCI Developer pipelines
 - * Mild experience with containerization (Docker)
- Banking Sector
 - * Develop a robust Google Adwords API in Flask, to support automatic ad publishing and supervision in both Python and Java

- * RESTful API development using both SOAP and REST

Big Data / Business Intelligence Consulting Intern, Oracle

January 2019–September 2019

Experience:

- Cloud Development
 - * Develop a Python JSON Deserializer for Oracle Cloud Infrastructure (OCI)'s CLI
 - * Automate, with Python Scripting, the process of documentation generation for projects in the pre-production and production phases
 - * Version control maintenance and iterative development using V-cycle methodologies
- Social Sector
 - * Handle ETL Database Operations with ODI (Oracle Data Integrator) and OWB (Oracle Warehouse Builder)
 - * Handle Big Data operations with OBI (Oracle Business Intelligence)
 - * Perform migrations from ODI to OBI
- Banking Sector
 - * Front and Back-end web development with Apache Tomcat and Bootstrap 4.3
 - * Oversee Machine Learning good practices and the data preparation process
 - * Develop RESTful APIs to provide specific web services
 - * Handle and develop ETL mechanisms with Java 8 to interact with Google Adwords' API
 - * Maintain PostgreSQL databases

Research Assistant, UC3M

April 2019–July 2019

Department of Automation Systems and Robotics, Carlos III de Madrid University

Supervisor: Dr. José Carlos Castillo

Main responsibilities:

- Research medical alert systems and their applications in elderly people
- Perform a Machine Learning, Deep Learning and Neural Network analysis of data with Weka 3 and scikit-learn
- Cryptographic research: Xiaomi Mi Band 2 and other GATT-based devices

Research Assistant, UC3M

September 2018–December 2018

Department of Automation Systems and Robotics, Carlos III de Madrid University

Supervisors: Dr. José Carlos Castillo, Dr. Fernando Alonso Martín

Main responsibilities:

- Oversee proper coding practices and standards of university's private repository code
- Implement Google ASR (Automatic Speech Recognizer) for ROS (Robot Operating System) and manage tests to improve speech recognition performance

- Improve ABNF grammars to work with Google ASR
- UNIX-based Operating Systems maintenance

Publications

Smartwatch-Based User Monitoring for Human-Robot Interaction. Ignacio Guillermo Martínez Rincón, José Carlos Castillo Montoya (July 2019)

Skills

LANGUAGES

English	Native or Bilingual Proficiency
Spanish	Native or Bilingual Proficiency
German	Elementary Proficiency

CERTIFICATIONS

Oracle Cloud Infrastructure Foundation for Solution Engineers - Oracle	April 2019
Oracle Business Intelligence Cloud Service Specialist - Oracle	March 2019

COURSES

Learning ROS Step by Step - Udemy	August 2018 - February 2019
Python Theory for Network Engineers - Lynda	February 2019
Python Statistics Essential Training - Lynda	February 2019
Advanced Python - Lynda	February 2019
Advanced Python - Lynda	February 2019
Ubiquitous Computing	January 2018 - June 2018
Android Application Development	January 2018 - June 2018
Mobile Devices Security. Code Obfuscation and Repackaging	January 2018 - June 2018
Front-End Web Design	September 2017 - January 2018
Distributed Systems. An Introduction and Overview	January 2017 - June 2017

PROJECTS

- Python Advanced JSON Deserializer
- Selenium-based Browser Automator