



RICARD ILLA

DATA ENGINEER

CONTACT

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PERSONAL

Date of birth 15/10/1990

Nationality Spanish

Languages English
Spanish
Catalan

EXPERIENCE

January 2021 - Present

company

TRKKN

position

Data Engineer

duties

Implement data warehouse and ELT setups for customers.
Architect cloud data infrastructures and serverless applications.

technologies

Google Cloud
Apache Airflow
Dataflow/Apache Beam
BigQuery
Firestore
Pub/Sub
Terraform

June 2019 - October 2020

company

LEAD RATINGS

position

Data Engineer

duties

Develop and maintain a data-centered ML SaaS platform
Assist Data Scientists' internal workflow
Develop connectors to third party platforms

technologies

Django
Amazon web services
Docker and Docker Swarm
Redis
MySQL
Elasticsearch
Numpy and Pandas

July 2018 - June 2019

company

SELLBYTELL GROUP

position

GCP Support Engineer (Big Data and ML specialist)

duties

Provide Big Data and Machine Learning technical support to
Google Cloud Platform users
Troubleshoot and debug customer's issues

technologies

Google Cloud Platform
BigQuery
Google Dataflow / Apache Beam
Google Composer / Apache Airflow
Google Cloud Pub/Sub

November 2013 - April 2018

institution

INSTITUTE FOR RESEARCH IN BIOMEDICINE (BARCELONA)

group

Molecular Modeling and Bioinformatics

position

PhD Student

duties

Perform bioinformatics research on Nucleosome Positioning
Develop and implement statistical analysis methods
Develop and maintain R packages
Integrate my code into bigger genomics frameworks

technologies

R
C
Python
Bioconductor
Sun Grid Engine
MongoDB

EDUCATION

2013-2018	PhD in BIOMEDICINE (unfinished) Universidad de Barcelona
2012-2013	MSc in BIOINFORMATICS Universidad Autònoma de Barcelona
2008-2012	BSc in BIOCHEMISTRY Universidad Autònoma de Barcelona

INTERSHIPS

	2011 - 2013
description	<i>Master's internship / Colaboration scholarship / Degree's internship</i>
group	Protein folding and conformational diseases
institution	Institute of Biotechnology and Biomedicine (Barcelona)
	2012
description	<i>Internship</i>
group	Peptide synthesis and protein structure
institution	Institute for Research in Biomedicine (Barcelona)
	2012
description	<i>Exchange Student</i>
group	Biophysics and radiation biology
institution	Semmelweis University (Budapest)

PUBLICATIONS

- Buitrago D, Codó L, Illa R, et al. Nucleosome Dynamics: a new tool for the dynamic analysis of nucleosome positioning. *Nucleic Acids Res.* 2019;47(18):9511-9523. doi:10.1093/nar/gkz759
- Dans PD, Daniłane L, Ivani I, et al. Long-timescale dynamics of the Drew-Dickerson dodecamer. *Nucleic Acids Res.* 2016;44(9):4052-4066. doi:10.1093/nar/gkw264
- Zambrano R, Conchillo-Sole O, Iglesias V, et al. PrionW: a server to identify proteins containing glutamine/asparagine rich prion-like domains and their amyloid cores. *Nucleic Acids Res.* 2015;43(W1):W331-W337. doi:10.1093/nar/gkv490
- Navarro S, Diaz-Caballero M, Illa R, Ventura S. Aggregation propensity of neuronal receptors: potential implications in neurodegenerative disorders. *Future Sci OA.* 2015;1(2):FSO39. Published 2015 Sep 1. doi:10.4155/fso.15.39
- Fraga H, Graña-Montes R, Illa R, Covaleda G, Ventura S. Association between foldability and aggregation propensity in small disulfide-rich proteins. *Antioxid Redox Signal.* 2014;21(3):368-383. doi:10.1089/ars.2013.5543