



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	<i>Data Engineer</i>
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	<i>Data Engineer</i>
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	<i>GCP Support Engineer (Big Data and ML specialist)</i>
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	<i>Molecular Modeling and Bioinformatics</i>
position	<i>PhD Student</i>
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

CERTIFICATIONS

Google Cloud Certified

Professional Cloud Architect

Issue Date: 14 Dec 2022

Expiration Date: 14 Dec 2024

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, Danilâne 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, Covalada 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