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**John K. Barrera C**


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illarek.github.io

# John Kevin Barrera Contreras

## Data Engineer • Data Scientist • Statistician

Bachelor of Systems Engineering and student of Mathematical Statistics, with knowledge in IT, statistics, Big Data, Machine Learning, Blockchain, IoT and the development of web applications and mobile applications. I have experience in banking, telecommunications, research and construction. I have worked as a research assistant in Cryptocurrency and Blockchain Technologies, also in data analysis, NLP and artificial intelligence. I'm interested in projects that involve BigData, statistics, ML and Data Science, and above all with a social focus.

## Experience

### October 2020 - August 2021, RAPPI

#### Data Engineer

Details: Data engineer at RAPPIBANK, giving general business support in everything related to RAPPIBANK data for LATAM, this implies presenting solutions, proposals, and elaboration of pipelines.

### April 2020 - September 2020, CIUP

#### Data Scientist

Details: I collaborated in research projects for World Bank, all results where published in **Analysis of the Health Network of Metropolitan Lima Against Large-Scale Earthquakes**; and PCM (Contact Tracing, and analysis of the probability of contagion of covid19 based on their interactions).

### December 2019 - February 2020, BWIT

#### Big Data Engineer, Data Scientist

Details: Liderando construcción de un módulo de clasificación, de transacciones (Rubros) para el sector bancario, las tecnologías empleadas fueron Python, AWS, Nifi, Hadoop, Hive, Teradata y códigos Bash.

### August 2019 - November 2019, INDRA

#### Big Data Engineer

Details: Leading the design and development of a transaction classification module (Items) for the banking sector, the technologies used were Python, AWS, Nifi, Hadoop, Hive, Teradata and Bash codes.

### Research Center of Pacific University

#### 2018 - February 2019

#### Research assistant on Data Scientist

Leading researchers: M. Nuñez del prado, Ph.D y H. Alatrística S., Ph.D.

Details: I contributed by analyzing and mining of customer buying behaviors using unsupervised methods (machine learning) and NLP.

### March 2017 - 2018

#### Research Assistant

Leading researcher: F. Rosales M., Ph.D.

Details: Research projects on Blockchain, creation of a cryptocurrency from a Bitcoin fork.

Dapps development on the Ethereum platform, as well as web application development through API. Development of algorithms in R and Julia languages.

#### **May 2018 - May 2019, Everis S.A**

Big Data, Solutions Assistant.

Details: I collaborated in Big Data projects of some Peruvian banks with technologies from the Apache community, databricks, cassandra, kafka among others. I received training in Big Data, Hadoop, Hive, Spark, Sqoop, Kafka, zookeeper and HBase; and create multiple proofs of concepts.

#### **August 2017 - December 2017, ONPE-GSFP**

System engineer Passant

Details: I collaborated with the Cleaning and validation (ETL) of data from the reports of the political organizations, for their later storage and use, this process included, in addition to a cleaning and correction of data validated with the RENIEC Database, a verification and user confirmation (errors were reported by eminent ones).

## **Education**

#### **2020 - Today, San Marcos University**

**Faculty of Mathematical Sciences**

Master's student in mathematical statistics

#### **2012 - 2017, San Marcos University**

**Faculty of Systems Engineering**

Bachelor of Systems Engineering

#### **Spring - 2016, Chile University**

**Faculty of Economics and Business**

Exchange Student (Pacific Alliance Scholarship)

## **Skills**

#### **Big Data and Cloud Tools**

- Hadoop, Hive, NIFI, shift, Lambda, sage-maker, Athena)
- Hbase, Scoop ○ GCP (Dataproc, Dataflow, BigQuery, Azure (Databricks, Blob Storage)
- Spark CloudStorage)
- Kafka
- Airflow, Astronomer ○ AWS (S3, Red-

#### **Methodologies and platforms**

- RUP, Scrum, XP ○ Model Canvas (\*) ○ TCP/IP, VPN
- Design Thinking ○ Linux-Windows

#### **Computer programs**

- Programming languages (Java, Scala, Python, R, Julia, C/C++).
- Office Tools (Office - LibreOffice).
- RapidMiner, SPSS-Modeler and Python for Business Intelligence.
- Development Frameworks (MySQL, Teradata, Postgres, Oracle, SqlServer, MongoDB).
- Rational Rose y bizagi modeler.

## Additional Information

### Publications

- **SIMBig2020**  
Analysis of the Health Network of Metropolitan Lima Against Large-Scale Earthquake ISBN:978-3-030-76228-5.

### Achievements

- Ex-Fellow of the Pacific Alliance in Chile
- **Hackspace Hackathon: Contact Tracing - 2020** Winning Project
- **IBM CODING DAY: HACKATHON POR UN PERÚ SINANEMIA** Winning Project
- **HACKATHON ARTTEC** Winning Project

### Languages

- English (Advanced - studying)
- Spanish (Native)
- Portuguese (Basic)

### Projects

- **PCM - MINSA** Contact Tracing - Peru in your hands.
- **WorldBank** Analysis of the health network in the event of earthquakes.
- **VacBs** Creation of a mobile App for people on hand milk production with INIA, UP, UALM; This project involved the use of Neural Networks. **Informative note.**
- **EsanCoin/CiupCoin** CCreation of a Cryptocurrency for educational purposes, based on the source code of bitcoin and learncoin from which we fork, video tutorial here.
- **Rocket/Black Rabbits Get Lost In The Woods** Creation of a Dapp on the Ethereum Blockchain platform.