

RAFAEL BEZERRA DA ESCÓSSIA ARAÚJO

Brasília, DF, Brazil • +55 (84) 99916-5854 • bezerraescossia@gmail.com • linkedin.com/in/bezerraescossia

SUMMARY

Mechanical engineer by training and currently a data engineer. I have a passion for the field of analytics, with deep knowledge of data science and a love for statistics and mathematics. I have participated in projects involving the development and maintenance of large-scale data infrastructures at a global level. I hold certifications in various cloud platforms, including Google Cloud and AWS, as well as professional certifications as a Data Engineer and Data Scientist from IBM.

PROFESSIONAL EXPERIENCE

IBM, São Paulo, Brazil March 2022 – Present

Data Engineer - Big Data

- Responsible for the ingestion, processing, storage, and management of Data Warehouses and Data Marts for large companies at a global level.
- End-to-end development of ETL processes for data migration between companies.
- **Tools and Technologies:** Shell Script, SQL, Ferramentas de ETL (IBM DataStage, Informatica Powercenter), Python, Scala, Apache Spark, Apache Airflow, Docker, Kubernetes, Git, GitHub and others.

Engetec, Natal, Brazil May 2020 – March 2022

Data Analyst

- Audited energy consumption for cities in Brazil, providing technical engineering support and skilled programming knowledge that led, on average, an economy of 15% for clients.
- **Tools and Technologies:** Python, Pandas, SQL, and Shell Script.

MAN Truck and Bus, Munich, Germany February 2016 – September 2016

Mechanical Engineer (internship)

- Developed internal processes using VBA and Excel to simplify technology exchange among Volkswagen group companies, shorting wait time by 3 months.
- Prepared plans for mechanical verification, product development, and factory processes.
- Coordinated Volkswagen group presentations in expositions meetings.

EDUCATION

Fundação Getulio Vargas (FGV), Brasília, Brazil June 2023 – Present

Master of Business Administration in Big Data and Business Analytics

- **Course Syllabus:** Exploratory Data Analysis, Database and Visualization, Statistical Inference, Predictive Analysis, Time Series Analysis, Spatial Statistics, Informational Modeling, Matrix Methods and Cluster Analysis, Market Decisions and Applications, Social Media Analysis and Text Mining, Distributed Databases, Advanced Statistical Modeling, Advanced Predictive Analysis, Business Decisions and Logic Thinking.
- **Current average grade:** 9.7 out of 10

Universidade Federal do Rio Grande do Norte, Natal, Brazil February 2016 – September 2019

Bachelor of Science in **Mechanical Engineering**

- **Course Syllabus:** Foundations in Statics and Dynamics, Mechanical Vibrations, Thermodynamics, Fluid Dynamics, Stress Analysis, Mechanical Design, Technical Drawing, Industrial Maintenance, CAD/CAE, Programming and Algorithms, Finite Element Methods.
- **Dissertation:** Topology Optimization Method Integrated to Product Development Process.
- Completed course among top 1% students with best academic performance index.
- Completed one-year study abroad with Westsächsische Hochschule Zwickau (Germany).
- Overall champion in international competition (COBRUF 2018) for rocket constructors.

Westfälische Hochschule Zwickau, Zwickau, Germany

February 2015 – February 2016

University of Applied Science - **Automotive Engineering and Management**

- Graduation program partnership at a German university, as part of the Mechanical Engineering course at the Federal University of Rio Grande do Norte, Brazil.

PROJECTS

COBRUF Association, Brazil

March 2023 – October 2023

Non-profit organization in the aerospace sector

- **Volunteer work.** As a member of the electronics team, our main objective was to develop advanced technology for rockets, generate data, and use it to power other rocket systems. Additionally, we worked on creating solutions for transmitting data from the rocket to the ground and making it available in an analytical environment for further exploration.

Fundação Oswaldo Cruz - Fiocruz, Rio de Janeiro, Brazil

September 2021 – February 2021

Academic research on public spending

- Created a workflow of data through ETL processes.
- Collected, cleaned, and manipulated data using Python.
- Captured thoughtful insights from Exploratory Data Analysis (EDA) and reported to Fiocruz researchers.

Potiguar Rocket Design, Natal, Brazil

January 2018 – July 2019

University's team that projects and constructs Rockets

- Designed structural rocket bodies.
- Programmed IoT devices for telemetry.

COURSES

Vox2You, Brasília, Brazil

July 2024 – Present

Public Speaking School

- **Course Syllabus:** Naturalness, Eye Contact, Gestures and Facial Expressions, Fluency, Voice Modulation, Public Reading, Parts of Speech, Punch!, Analogy Applied to Public Speaking, Storytelling, Visual Aids, Mental Triggers, Conviction in Words, Rapport, Persuasive Argumentation, Memorization.

SKILLS & OTHER

Certifications: Google Cloud Platform Digital Leader Certification, AWS Cloud Practitioner Certification, IBM Data Engineer Professional Certification, Alura Data Science certification, IBM Cloud Certified Technical Advocate.

Skills: Data Modeling, Data Analytics, Big Data Processing, Amazon Web Services, Statistical Modeling, ETL, Agile, Design Thinking.

Tools: Python, Shell, SQL, Informatica Power Center, IBM DataStage, Apache Spark, Apache Kafka, Apache Airflow, Docker, Kubernetes, Distributed Databases, NoSQL Databases, Scala, Git and Github.

Languages: Portuguese (native), English (fluent), German (advanced).

Interests: Reading, Programming, Music, Technology, and Sports.