

# IVÁN ARTURO SALAZAR ORTIZ

Systems and computing engineering - Data Engineer

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## EDUCATION

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### Master in Universidad de Los Andes

*expected graduation year 2023*

- Master in data engineering ([MINE](#))
- Relevant Coursework: Big data analytics, Cloud, Machine Learning, Security and privacy.

### Universidad de Los Andes

*2020*

- Systems and Computing Engineering.
- Thesis: Automatic Meter Reading using neural networks. (Applied in a real context/company)
- Relevant Coursework: Technology infrastructure fundamentals, Algorithm design and analysis, Transactional systems, Software architecture and design, Enterprise architecture, Business intelligence, Communications infrastructure, and Construction of mobile applications.

### Universität Mannheim

*2019*

- Semester aboard with studies in data science (Master's class), security in IT and information security.

## WORK EXPERIENCE

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### Wireless & Mobile - Remote *Innovation consultant*

*January 2019 - present*

- Lead the process of bringing new technologies to different projects and contexts, focused on data science, big data and infra-structure.
- Applied my knowledge from my "Research teacher assistant" in the context of the company (Pipelines, ETLs, ML, MLops, Big data, Python, PySpark, Spark, MLib, GCP, Docker, MLFlow, relational and non-relational databases.).
- Built pipelines and AI models from development to production, for electric energy fraud detection. The detection of fraud improved between 100% and 200% in different regions compared to what the company detected before.
- Main technologies: python, spark/pyspark.
- My undergraduate thesis "Automatic Meter Reading using neural networks" was a cooperative work with this company.
- Knowledge brokering to my colleagues.
- Documentation for TRL (Technology Redines level, maturity level).
- Android development with Kotlin in the first year. (Experimenting with different face recognitions tools like AWS rekognition)

### Universidad de los Andes - Hybrid *Research teacher assistant*

*August 2021 - December 2022*

- Worked with a diverse team from different countries.
- Researched, and created material for analytical solutions deployment in a master degree class ([MIAD](#), Master in Data Analytics Intelligence).
- Back end development for an analytics solution related to professors research's, promotions, publications, etc.
- Other technologies: GCP, S3, Lambda, load balancers, Heroku, Sendgrid, Redis, AWS SQS, AWS auto scaling, ec2, RDS, docker, docker-compose, Python, JavaScript, Typescript, Pyspark/Spark, Mlflow, relational and non-relational databases.

### Universidad de los Andes - Remote *Leader teacher assistant at master level*

*Second semester 2022*

- Tutored students in a master degree class related to MLops ([MIAD](#), Master in Data Analytics Intelligence)
- Guided and graded students during the course activities.
- Assessed students doubts related to the class concepts.
- Technologies: Python, PySpark, Spark, MLib, GCP, Docker, MLFlow, relational and non-relational databases.

Universidad de los Andes

Second semester 2015

*Undergraduate teacher assistant*

*Course: Algorithms and object-oriented programming.*

- Guided students in the basics of OOP (object Oriented Programming) model in java.
- Graded students programming assignments.

## LEADERSHIP & ACTIVITIES

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Universidad de los Andes

August 2021- December 2022

*Research teacher assistant*

- Led a small Team with under graduated students for a development in the university. (Full-stack, ETLs)

Universidad de los Andes

Second semester 2022

*Leader Tutor in Master degree class*

- Led a small Team of tutors and distributed activities that had to be done for the class. (Full-stack, ETLs)

## TECHNICAL STRENGTHS AND INTERESTS

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**Programming languages :** Python, TypeScript, java, JavaScript, HTML and CSS, SQL, No SQL.

**Databases:** Relational and non-relational databases. Mongo, postgres, mysql, mssql, DynammoDB, s3, cloud storage.

**Agile Methodologies:** Scrum.

**Soft-Skills:** Organized, Time management, Compromised, and Teamwork.

**Languages:** Spanish (native), English (Advanced), German (Basic).

**Interests:** Finance, Big data, development, infrastructure, exercise, market and technology, AI.

## COURSES

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- [Innovar](#), Coursera

2020

- [Computer security: defense against the digital arts](#), Coursera

2020