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| **Enrique A. Fonseca** |
| **Data Engineer** |

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| ***Profile*** | *A former physicist with a strong foundation in math, logic and problem solving with 3+ years of experience in the “data” field. Experience in translating data business problems into technical tasks. Seeking to leverage solid skills in collaboration, communication and development of data-driven processes.* |

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| ***Capabilities*** | **ETL** | **Google Cloud** | **Statistical Prototyping** |
| Create data integration pipelines implementing different tools (*e.g.* IPC, Airflow, Beam) with a detailed care of data quality checks | Deep understanding of Google Cloud offerings and services with a strong background in architecting diverse solutions in GCP. | Analysis of statistical techniques and translation of complex problems into small, manageable pieces through well-redacted documentation and code examples. |

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| ***Skills*** | **Python 3.\*** | **Apache Airflow** | **Terraform** |
| UNIX/Bash | Apache Beam | Google Cloud Platform |
|  | SQL | PySpark | Git / SCM |
|  | Core Java | Snowflake | Docker |
|  | R | Informatica Power Center |  |

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| ***Education*** | Bachelors in physics – Universidad de Guadalajara |

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| ***Certifications*** | **Certified Associate in Python Programming** – Python Institute  **Google Cloud Associate** – Google  **Google Cloud Professional Data Engineer** – Google  **Terraform Associate** – Hashicorp  **Apache Airflow Fundamentals** – Astronomer |

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| ***Experience*** | EPAM Systems | February 2023 – November 2023 |
|  | **Data Support Engineer**  **Project:** NDA  **Technical Environment:** Google Cloud  As an expert in Google Cloud’s Big Data environment, my role consists in providing technical support to customers using Big Data and ML services within the stack.   * Architecture review and guidance of best practices * Incident report and bug tracking * Offer code review on a best effort practice (Java, Python, Terraform DSL, …) | |
|  | Tata Consultancy Services | July 2022 – February 2023 |
|  | **Jr. ETL Developer**  **Project:** NDA  **Technical Environment:**  Collaborating in an agile team whose efforts were focused on replatform to cloud-based technologies (such as Snowflake).   * Repointing Informatica workflows (and mappings) to Snowflake * Detection of bottlenecks and implementing performance improvements * Develop and maintain the framework on which these jobs run (Shell wrappers, Python scripts, parameter files, listeners) * Using Git to maintain the remote repository. Pushing code to Gitlab, enabling CI/CD procedures * Create test scenarios for the new workflows in order to check data quality, consistency and performance * Mentoring new team members on the following technologies:   Bash scripting  Python  SQL | |
|  | Tata Consultancy Services | June 2021 - July 2022 |
|  | **Assistant Systems Engineer**  **Project:** NDA  **Technical Environment:**  Took part of an agile support team who responded to performance issues across different servers.   * Monitor performance of queries issued by the IPC Integration Service on several Netezza servers * Automation of tasks via Bash scripts * Monitor cycle/jobs using Control-M * Creation and maintenance of the team’s knowledge base | |
|  | Ventajas de Negociacion de S.A. de C.V. | <date> - <date> |
|  | **Statistical Modelling Intern**  **Project:** Internship  **Technical Environment:**  Development of algorithm prototypes in R and Matlab for detection in financial cyles implementing techniques such as:   * Signal noise filtering using Singular Spectrum Analysis (SSA) and Fischer statistical test (periodicity validation) * Kernel density estimation (KDE) methods for prediction * Automated cycle algorithm detection using Fourier transform and autocorrelation function (ACF) | |
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