Enrique Companioni

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enrique-companioni EnriqManComp

Education

Center for Scientific Research and Higher Education of Ensenada *Sept 2022 – Sept 2025*
MS in Computer Science

- GPA: 94/100 (student record)
- **Coursework:** Selected Topics in Interactive Systems, Computational Intelligence for Optimization, Algorithm Analysis, Robotics, Remote Sensing Imagery Analysis, Selected Topics in Geomatics, Adaptive Image Processing, Digital Image Processing, Probability and Statistics

Experience

IT / Software Engineer *Cayo Coco, Cuba*
ETECSA *Oct 2021 – Aug 2022*

- Collaborated on a complaint management system that automated ticket creation, routing, and prioritization - reducing response time by 45%, cutting fuel consumption by 20%, and improving client satisfaction by 25%.
- Designed the data modeling architecture for the new data warehouse, replacing a single-database design to improve data integrity and analytical performance.
- Built three interactive dashboards tailored to different teams:
  - For developers: monitored runtime, message failures, and system health.
  - For field IT staff: visualized ticket locations, response delays, and infrastructure status nearby.
  - For executives: tracked ticket backlogs, client impact, and production-related performance metrics.

IT / Software Engineer *Ciego de Avila, Cuba*
ETECSA *Jul 2020 – Oct 2021*

- Developed and deployed a data-driven decision support system that integrated network status, sales agent distribution, and population data, eliminating manual Excel-based planning and improving sales agent placement.
- Designed and implemented the system's database architecture.
- Built a visualization interface to display agent locations, population density, and network coverage, enabling executives to make faster, evidence-based deployment decisions.

Projects

Earthquake Lakehouse on Azure & Databricks *github-repo*

- Designed and implemented an earthquake tracker that allows users to monitor and view information about nearby seismic activity
- Tools Used: Python, Azure Data Lake Storage, Databricks

Real Estate Data Warehouse Design *github-repo*

- Designed and implemented a data-warehouse solution for monitoring the status and trends of real-estate sales across Connecticut.
- Tools Used: Python, SQL, Apache Airflow, Power BI

Technologies

Languages: Python, SQL

Technologies: Apache Spark, Apache Kafka, Apache Flink, Apache Airflow, Docker, Git, Power BI, Tableau, PyTorch, Pandas