

Ezekiel Talampas

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EDUCATION

Mapua Malayan Colleges Laguna

2022 – 2026

Bachelor of Science in Computer Science, Specialization in Data Science and Analytics

EXPERIENCE

Data Analytics Intern — STMicroelectronics

May 2026 – July 2026

- Automated a manual PPM and Yield reporting process by developing four Power BI dashboards across two departments (Finishing and Test), using Power Query and relational data modeling to analyze two years of historical production data.
- Analyzed defect rates and yield trends across Test and Finishing production stages, identifying performance patterns to support manufacturing monitoring and operational decision-making.
- Developed a Flask-based internal reference portal that centralized product documentation, manufacturing process flows, and deployment references, with role-based authentication and CRUD functionality.

PROJECTS

WHO Global Disease Outbreak Analytics

Analyzed global disease outbreak trends across 90+ diseases and 236 countries using AWS and Power BI

- Analyzed 3,500+ WHO disease outbreak records to identify patterns and trends across diseases, countries, and time periods, presenting findings through Power BI visualizations.
- Built a PySpark ETL pipeline in AWS Glue to clean and transform raw WHO data, loading curated datasets into Amazon Redshift for analytical reporting.
- Automated weekly data pipeline execution with CloudWatch monitoring and failure alerts to maintain data availability for reporting.

Airbnb NYC Analytics Dashboard

Interactive analytics dashboard analyzing 41,697 NYC Airbnb listings using Snowflake and Power BI

- Analyzed 41,697 Airbnb listings to identify neighborhood-level patterns in listing volume, pricing, and room type distribution across New York City.
- Loaded and modeled Airbnb data in Snowflake, creating a structured analytical layer for BI reporting.
- Developed a multi-page Power BI dashboard with 8+ visualizations and interactive filters for neighborhood, room type, and price category to support exploratory analysis.

Stock Price Analytics Pipeline

End-to-end analytics pipeline transforming stock market data into analytical models using Databricks and Snowflake

- Built an analytical data model using fact and dimension tables to support historical stock performance analysis across multiple tickers.
- Developed Bronze → Silver → Gold data transformations using Databricks Delta Live Tables and loaded curated datasets into Snowflake for BI reporting.

MakiPrint – Ink Usage Classification System

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- Built a web-based annotation tool that produced a custom dataset of 1,780 labeled document page images across three ink intensity categories, validated through Krippendorff's Alpha ($\alpha = 0.886$) with Naive Bayes tie resolution
- Trained an image classification model achieving 95.13% test accuracy in predicting ink usage levels across document pages
- Developed a full-stack web-based printing management platform deployed at a partner retail printing shop, integrating automated ink-based cost estimation, online payment, and administrative order management

CERTIFICATIONS

- IBM AI Developer Professional Certificate
- Google Data Analytics Professional Certificate
- Python for Data Science, AI & Development
- Google Cloud Computing Foundations: Cloud Computing Fundamentals

SKILLS

Languages & Tools: Python, SQL, PySpark, Databricks, Delta Live Tables (DLT), Snowflake, AWS Glue, Amazon Redshift, Power BI, Git