

MOHAMAD MERI

Software Engineer

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EXPERIENCE

Data Engineer

Freelance/Independent Consultant

2025 - Present

California, USA (Remote)

- Architected end-to-end ETL pipelines in Python (pandas, NumPy) to consolidate 8 Excel files with thousands of records into a single, analysis-ready dataset.
- Engineered automated data cleaning solution using regular expressions and custom algorithms to standardize inconsistent text entries, eliminating manual preparation work.
- Diagnosed and resolved critical data integrity bug caused by complex Excel formatting, implementing robust parsing logic to guarantee accurate extraction and alignment.
- Developed and deployed 7 interactive dashboards using Plotly with drill-down capabilities, providing stakeholders self-service access to real-time business metrics.
- Performed statistical analysis identifying key cost drivers, revealing 92% of cost increases concentrated in just 3 operational areas out of 50+.
- Delivered executive-level technical documentation and actionable recommendations that directly informed cost-reduction strategy.

Software Engineer

Travelbook Holidays

2022 - 2024

Beirut, Lebanon

- Developed and maintained booking workflow modules and affiliate tracking features using Flask (Python), HTML/CSS, and SQL databases.
- Implemented automated testing and code optimization to improve system reliability for daily operations.
- Collaborated with stakeholders to troubleshoot technical issues and deliver feature enhancements.

IT Support Technician

Travelbook Holidays

2021 - 2022

Beirut, Lebanon

- Provided technical support, system administration, and automation scripting for recurring operational tasks.

PROJECTS

Styx: Full-Stack Workout Tracker

- Built a Flask web application with relational database backend for workout tracking and data persistence.
- Implemented comprehensive testing suite using Pytest and Hypothesis with high code coverage monitored via Coveralls.
- Established CI/CD pipeline with GitHub Actions, Ruff linting, and automated testing for code quality assurance.

Artist Identification via Deep Learning

- Developed deep learning model for artist classification utilizing transfer learning and fine-tuning CNN architectures with PyTorch and fast.ai.
- Conducted error analysis via confusion matrices to improve model fairness and interpretability.

EDUCATION

Bachelor of Science in Computer Science

American University of Beirut

2016 - 2020

Beirut, Lebanon

SKILLS

Languages Python, Java, SQL, HTML/CSS, C++

Data & ML pandas, NumPy, ETL pipelines, PyTorch, scikit-learn, Plotly, regular expressions

Development Flask, REST APIs, relational databases, Pytest, Hypothesis, automated testing, CI/CD

Tools Git, GitHub, GitHub Actions, AWS (Lambda, S3), GCP, Ruff, Coveralls