

AMIR AMEMI

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Summary

Analytical and solution-oriented Software & Data Engineer with experience designing data-driven and C#-based applications. Skilled in building ETL pipelines, managing relational databases, and developing business intelligence dashboards. Strong foundation in software development, data warehousing, and reporting systems, with practical experience in Python, C#, SQL, and AWS. Adept at collaborating in international environments and contributing to agile IT projects aligned with banking and enterprise standards.

Experience

Smart Information Trade

February 2024 – September 2024

Data & Software Engineer Intern

Monastir, Tunisia

- Engineered an automated scheduling system using optimization algorithms, reducing process time by 98% and ensuring 95% compliance with business rules.
- Developed backend logic integrating SQL data handling and Python modules, improving performance across scheduling workflows.
- Delivered analytical reports and dashboards to enhance decision-making and operational efficiency.

Technologies: Python, SQL, C#, Pandas, NumPy, Matplotlib, MySQL, Data Visualization, Optimization.

Digital Research & Technologies

April 2023 – October 2023

Data engineer Intern

Monastir, Tunisia

- Designed and maintained ETL pipelines for large datasets using AWS Glue and Redshift, optimizing data processing by 30%.
- Implemented data models and warehouse structures supporting business analysis and reporting.
- Analyzed data trends, resulting in improvement in decision making speed for key strategy initiatives.
- Improved data quality by 25% and contributed to BI dashboards for key stakeholders.

Technologies: Python, AWS Glue, AWS Redshift, MySQL, HTML5, Selenium, BeautifulSoup, JSON.

Projects

Cover Letter Generator

July 2025

- Built an automated workflow using n8n to generate personalized cover letters by sending job descriptions to a Telegram bot and returning a PDF

End-to-End Data Pipeline for Flight Delay Analytics

June 2025

- Built a fully serverless AWS-based pipeline to fetch, store, and visualize real-time +100 flights delay data with automated daily reports on Discord.

Automated Data Pipeline & Flight Delay Dashboard

April 2025

- Developed an automated Python ETL pipeline to analyze and visualize Nouvelair +100 flights delays, posting daily dashboard reports via GitHub Actions and Discord.

Technical Skills

Languages: Python, Java, C, C#, HTML/CSS, SQL.

Developer Tools: VS Code, Eclipse, AWS, IntelliJ.

Data Engineering: ETL Pipelines, Data Warehousing, Data Processing, AWS Glue, AWS Redshift, MySQL.

Data Visualization: Power BI, Matplotlib, Seaborn.

Automation & Web Scraping: n8n, Selenium, BeautifulSoup, JSON, APIs.

Education

University of Schmalkalden

April 2024 – September 2025

Exchange Student in Computer Science

Schmalkalden, Germany

Faculty of Science of Monastir

September 2022 – June 2024

Master's Degree in Data Science

Monastir, Tunisia

Faculty of Science of Monastir

September 2018 – June 2022

Bachelor's Degree in Applied Mathematics

Monastir, Tunisia

Languages

German A2 | English B2 | French B1 | Arabic Native