Emil-Gabriel Gligore

Nationality: Romanian **Date of birth:** 23/06/2002 **Phone number:** (+40) 784400199

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ABOUT ME

I am a hardworking and ambitious individual, recognized as the valedictorian of my Computer Science program. I am deeply committed to achieving excellence while fostering teamwork and collaboration. A natural team player, I actively contribute to group success and always strive to support my colleagues in reaching their goals.
Driven by a passion for growth and continuous improvement, I embrace challenges as opportunities to learn and excel. My goal is to deliver impactful solutions, exceed expectations, and grow alongside innovative teams dedicated to making a difference.

EDUCATION AND TRAINING

Computer Science for Economics Bachelor's - Valedictorian (Șef de promoție)

Romanian-American University [30/09/2021 – 12/07/2024]

City: Bucharest | **Country:** Romania

Computer Engineering and Business Erasmus Student

Vistula University [01/10/2022 – 20/06/2023]

City: Warsaw | **Country:** Poland

WORK EXPERIENCE

Junior Data Operations Analyst

NielsenIQ [10/11/2022 – 01/10/2023]

City: Remote, Warsaw | **Country:** Poland

- Directed comprehensive client data operations, effectively addressing data quality challenges, ensuring adherence to delivery timelines, and implementing process optimizations to enhance overall efficiency.
- Translated complex client requirements into actionable, data-driven solutions by leveraging SQL and Python for in-depth data analysis, visualization, and customized reporting.
- Collaborated cross-functionally with technical and business teams to optimize database structures and streamline data workflows, resulting in improved accuracy, reliability, and scalability of deliverables.
- Proactively identified opportunities for automation and efficiency improvements, driving measurable gains in data processing speed and accuracy.

TECHNICAL SKILLS

Programming Languages

Web Development

React, Javascript, HTML, CSS, TailwindCSS, Firebase, Flask, NodeJS, Rust.

Data Science

Python, Matplotlib, Seaborn, Numpy, Pandas, SciPy, Scikit, TensorFlow.

Database

SQL, Oracle SQL, Microsoft SQL Server, Microsoft Access

Software Development

C#, C++, Visual Studio .NET, Java

Tools and Software

Microsoft Office

Microsoft Excel, Microsoft Powerpoint, Microsoft Word.

Data Visualization

PowerBI, Tableau.

Networking

Cisco Packet Tracer

Mathematics

Algebra & Linear Algebra & Abstract Algebra, 2D & 3D Geometry, Calculus, Trigonometry, Matrixes, Statistics, Analysis

PROJECTS

[01/11/2023 – 12/07/2024]

Polysolution - Clinic Management Web Application

Streamlined Operations: Developed an online application designed to optimize private clinic workflows by managing critical functions such as:

- **Appointment Scheduling**: Eliminates booking conflicts and maximizes resource utilization.
- **Patient Record Management**: Ensures secure storage and quick retrieval of medical histories.
- **Inventory Control**: Tracks medical supplies in real-time to prevent shortages.
- **Report Generation**: Provides actionable insights through detailed analytics for informed decision-making.

Enhanced Efficiency: Improved operational performance and service quality by automating manual processes and delivering a user-friendly platform for healthcare providers and administrative staff.

Cutting-Edge Technology Stack:

- **Front-End**: Built using **React** for an interactive, responsive user experience.
- **Styling**: Integrated **TailwindCSS** for a modern and efficient design system.
- **Back-End and Databases**:
    - Used **Firebase** for authentication and scalable cloud services.
    - Used **Firestore** for robust data management, optimizing performance for both structured and unstructured data.

Scalability and Reliability: Designed the application to handle growing clinic operations seamlessly, ensuring consistent performance and data security.

Link: https://polysolution-main.web.app

Time Series Analysis on California Housing Dataset with ARIMA Forecast
Developed and optimized ARIMA models for time series analysis and forecasting. Conducted data preprocessing, stationarity checks, parameter tuning, and trend visualization to achieve accurate predictions.

Link: https://github.com/EmilGligore/Time-Series-Analysis-Predictions-with-ARIMA

Interactive Dashboard of Romanian Economy Analysis
Developed an interactive dashboard using Python (Dash, Plotly) to analyze Romanian statistical data. Conducted data preprocessing, trend analysis, and visualization with dynamic filtering and user-friendly navigation.

Link: https://github.com/EmilGligore/Romanian-Statistics-Analysis-with-Interactive-Dashboard

Linear Regression with MSE & MAE Evaluation
Built and evaluated a linear regression model using Python. Preprocessed data, applied the model, and assessed performance with MSE and MAE metrics. Visualized relationships and residuals for actionable insights.

Link: https://github.com/EmilGligore/Linear-Regression-with-MSE-MAE-Evaluation

KMeans Optimized with Elbow Technique
Applied K-Means clustering to group data points and optimized the number of clusters using the Elbow Method. Preprocessed data, visualized clustering results, and identified patterns for actionable insights.

Link: https://github.com/EmilGligore/KMeans-and-Optimization-with-Elbow-Technique

Local DNS Server with SBC and PiHole
Created, configured and hosted locally my own DNS server with a SBC Raspberry Pi 4 with PiHole in order to increase the safety of my LAN.

CERTIFICATIONS

Python Certification - Kaggle

Pandas Certification - Kaggle

Cisco Networking Essentials

ECL C1 English Certificate

HONOURS AND AWARDS

[17/04/2024] Scientific Communications Session

Accelerating Computational Frontiers: An In-Depth Analysis of GPU Architecture and Parallel Processing - 2nd Place

I delivered a comprehensive presentation titled "Accelerating Computational Frontiers: An In-Depth Analysis of GPU Architecture and Parallel Processing." The project examined the evolution of GPU technology, its impact on computational speed, and its applications in various fields. The presentation stood out for its thorough research and clear explanation of complex technical concepts.

[03/05/2023] Scientific Communications Session

ChatGPT and AI - 2nd Place

I presented a research project called "ChatGPT and AI", where I dove into the basics of artificial intelligence and ChatGPT. The project also focused onthe impact, applications, and future potential of AI technologies. My presentation was awarded 2nd place for its insightful analysis and clear, engaging delivery.

[10/04/2018] National Mathematical Olympiad of Romania

National Mathematical Olympiad - 9th Place

I managed to get the 9th place out of 55 candidates at the National Mathematical Olympiad. The exam had 4 questions that should have been solved in 8 hours. Including various topics like algebra, geometry, trigonometry, calculus, discrete math, statistics and many more.
I represented the Bucharest Municipality at the national level, having won the 1st place in Bucharest.

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2

SPOKEN INTERACTION C2

Russian

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1

SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user