

Maxim Isacescu

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in Maxim Isacescu 🔗 M1XaM

Profile

Software Engineering student with solid computer science foundations and hands-on experience in backend development and data pipeline automation. Strong interest in systems engineering, Linux internals, and networking, with a desire to grow into a DevOps specialist. Effective at understanding systems holistically, from application logic to infrastructure and operational reliability.

Education

Technical University of Moldova

Sept 2023 – May 2027

Bachelor of Science English-Taught Honors Programme in Software Engineering

(ongoing)

- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Design Patterns, Computer Networks, Operating Systems (Linux), Databases, Mathematics.

Experience

Software Engineer Intern

Chișinău, Moldova Sept

Inspectoratul General al Poliției de Frontieră

2025

- Monitored and analyzed network traffic (TCP/HTTP) to detect anomalies and strengthen system reliability
- Assisted in incident response and infrastructure troubleshooting to maintain service uptime across teams

Software Engineer Intern

Chișinău, Moldova Sept

Infigo Software SRL

2024

- Thrived in a collaborative team environment through daily stand-ups and peer programming
- Received structured technical mentorship, including weekly sessions for progress reviewing
- Orchestrated development using Jira, ensuring efficient team coordination and project delivery

Projects

MyNet - Infra

[GitHub Repository](#) 

- Containerized backend services with Docker and structured independent repositories to streamline team collaboration and deployment workflows.
- Built asynchronous REST and WebSocket APIs using FastAPI and `asyncio` for real-time communication.
- Integrated a secure code execution sandbox with process isolation and a LaTeX rendering engine.
- Ensured reliability through structured error handling, input validation, and unit tests.
- Designed decoupled services for independent deployment, supporting continuous delivery and team autonomy.
- Tools Used: Python, FastAPI, PostgreSQL, Redis, Docker

E-Commerce Data Pipeline

[GitHub Repository](#) 

- Containerized the data pipeline with Docker, ensuring consistent environments and enabling team collaboration through reproducible deployments.
- Processed large-scale structured datasets (user events, purchases, reviews) with PySpark DataFrames.
- Automated monthly data aggregation and cleanup, maintaining a clean lifecycle with robust logging and error handling.
- Collaborated on modular pipeline design to ensure smooth integration into team workflows and reliable, repeatable analytics.
- Tools Used: Python, PySpark, Docker, Parquet

ClearCast - Automated News Intelligence Platform

[GitHub Repository](#) 

- Orchestrated a multi-service architecture with Docker Compose, ensuring consistent development environments and team collaboration.
- Developed a Go aggregation engine that syncs multiple RSS feeds into PostgreSQL, with a Python ML microservice for classification.
- Automated weekly digest generation and distribution via Telegram using a custom PDF pipeline.
- Implemented monitoring API with real-time metrics and log streaming for system health tracking and operational visibility.
- Tools Used: Go, PostgreSQL, Docker Compose, Telegram Bot API

Skills

Programming Languages: Python, Go, C#

Tools: Linux, Docker, Git, CI/CD, Bash, FastAPI, PostgreSQL, Redis

Spoken Languages: English (B2), Romanian (native), Russian (native)