

ION POALELUNGI

Data Scientist, Python and .NET Developer

Chisinau, Republic of Moldova

+37360319112

ion.poalelungi.ion@gmail.com

Nationality

Romanian

PROFILE

Fullstack developer with over 3 years of experience in designing, developing, and deploying large complex applications using Python and .NET, with a strong focus on AI/ML. Passionate about data science, data-driven innovations, cloud computing and generative AI. Proven track record of delivering high-quality fintech solutions that meet both business and user needs. Strong communication skills, eager to learn new technologies and deliver projects within tight deadlines. Highly interested in development and implementation of AI models for financial services.

EMPLOYMENT HISTORY

- ❖ Fullstack .NET & Python Developer, QSystems Global

Dec 2024 — Present

 - Responsible for designing and implementing scalable microservices architecture using **.NET and Python**, as well as **developing interactive frontend solutions with JavaScript** and modern frameworks.
 - Delivered **scalable, end-to-end data science solutions** for high-traffic B2B platforms, ensuring **99.9% system reliability**.
 - Specialized in database **optimization and schema design** using **Microsoft SQL Server, PostgreSQL, and Oracle DB**, supporting complex financial data operations and improving query performance by **25%**.
 - Applied **machine learning techniques**, which reduced processing time by **30%** and improved decision-making accuracy.
 - Used machine learning algorithms (XGBoost, Random Forest) that reduced fraudulent transactions by **40%**. Used OCR, PyTorch, TensorFlow.
 - Ensured compliance with **data protection regulations (GDPR)** while handling sensitive financial data, achieving **100% audit readiness** and reducing data breach risks by **50%** through robust encryption and access control mechanisms.
 - Designed and deployed a **regulatory compliance automation tool** using NLP and rule-based systems, reducing manual compliance workload by **50%** and ensuring **100% adherence to GDPR and PSD2 regulations**.
 - Integrated **Open Banking APIs** with AI-driven analytics to provide personalized financial recommendations, increasing cross-selling success rates by **20%**.
- ❖ Fullstack .NET & Python Developer, AZMol

Sep 2023 — Nov 2024

 - Led the migration of a legacy monolithic system to a **microservices architecture**, improving system scalability by 30% and reducing dependencies between components.
 - Migrated legacy systems to cloud-based architectures, improving scalability and reducing deployment time by **30%**.
 - Designed and developed **5 B2B projects** and their components using **.NET & Python** technology stack.
 - Conducted **data analytics** to identify trends and opportunities, contributing to the development of new business models that increased revenue by **10%** and improved customer retention by **12%**.
 - Utilized **cloud technologies (Azure)** to deploy **end-to-end AI applications**, reducing deployment time by **40%** and ensuring **99.9% system uptime** through scalable and secure architectures.
 - Used **Redis caching** for system performance increase.
 - Implemented **SQL query optimizations**, reducing database load times by 50%. Used NoSql.
 - Built and deployed containerized applications using **Docker, Nginx and Kubernetes**, ensuring seamless scalability.

- Enhanced system performance through **front-end and back-end optimizations**, achieving **25% faster load times** and improving user experience across diverse devices and browsers.

❖ Fullstack .NET & Python Developer, Freelance

Sep 2019 — Nov 2024

European Union

- Designed and developed **data-driven B2B and B2C solutions** for customers from Norway, Switzerland, Denmark, Belgium, Austria, Romania and Italy.
- Collaborated in an **Agile team of 5** to deliver a **machine learning-powered financial analytics platform** one month ahead of schedule, enabling clients to make data-driven decisions faster.
- Applied **data science techniques** to optimize financial models, achieving a **30% increase in ROI** through predictive analytics and conversion rate optimization (CRO).
- Optimized web applications performance, achieving **load time reduction of 25%** through front-end and back-end enhancements.
- Created an **AI-driven chatbot assistant** for a construction company that analyzed customer data (expenses, income) for tailored purchasing recommendations, increasing revenue by **8%** while maintaining market competitiveness.
- Achieved an average ROI increase of 30% by leveraging data-driven strategies and conversion rate optimization (CRO).
- Ensured responsive, **mobile-first design**, enhancing user experience across diverse devices and browsers.
- Designed an AI solution to optimize inventory and logistics for automotive supply chains, reducing inventory costs by **15%** and improving delivery times by **20%**.
- Delivered a scalable API solution for a client platform that reduced average query latency by 40%, ensuring improved performance and reliability under peak loads.
- Ensured **responsive, mobile-first design** for financial applications, increasing accessibility and user retention by **10%**.
- Specialized in database optimization and schema design using Microsoft SQL Server, Oracle DB, and PostgreSQL, supporting complex B2B data operations.

EDUCATION

❖ ULIM

Sep 2023 — Mar 2025

Master of Science in Management of Information Systems and Data Analysis

Chisinau, Moldova

- Data-driven decision-making, reporting, and **visualization (Tableau, Matplotlib)**.
- IT governance, strategy, and compliance (**GDPR, HIPAA**).
- Big data processing**(Hadoop, Spark, cloud solutions).
- Data Engineering**: ETL pipelines, data warehousing, API integrations.
- Predictive analytics**, automation, and **AI in business**.
- Cybersecurity & risk management in IT infrastructures.

❖ TUM

Sep 2019 — Jun 2023

Bachelor of Engineering in Software Engineering (Honours English-Taught Program)

Chisinau, Moldova

8 semesters of learning complex full-stack software development and parallel computing,

Top 20% of the year in Mathematics, Statistics and Probability– recognized by TUM principal for academic excellence in Advanced Mathematics, including Linear Algebra, Calculus, and Statistical Modeling.

Studied and worked with:

- Programming Languages**: Python (advanced), C#, JavaScript, SQL, React.
- AI/ML Frameworks**: TensorFlow, PyTorch, LangChain, RAG architectures.
- Data Analytics & Visualization**: Pandas, NumPy, Matplotlib, Tableau.
- Cloud Technologies**: Azure, Docker, Kubernetes, Nginx.
- Software architecture, OOP, SOLID, design patterns, and distributed computing.
- Database management**(SQL, NoSQL) and data structures.
- Agile methodologies, DevOps, and CI/CD pipelines.
- Cybersecurity principles and secure software development.

- Gained practical experience through three internships, each lasting 3 months, during my Bachelor of Engineering program.

COURSES

❖ Data AnalysisJul 2024 — Dec 2024

Google

LANGUAGES

Romanian	C2	English	C1
Russian	C1	German	A2
French	A2		