Franck NGAHA

Senior Python Engineer → AI / ML Engineer (Production & Métier)

Belgian nationality • Based in Belgium • Available

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Professional Profile

Senior Python Engineer with **10+ years of experience** in backend development and complex business applications, evolving toward **AI / Machine Learning Engineering with a strong production and business focus**.

Experienced in translating **business problems into robust, explainable, and deployable AI-driven solutions**, particularly in **decision-making systems, data pipelines, and risk-related use cases**.

Strong background in **Python architecture, data processing, ML pipelines, and API-based deployments**, with a consulting mindset: clarity, traceability, quality, and value for stakeholders.

Core Expertise

Python Engineering & Backend

- Python (OOP, clean architecture, refactoring)
- REST APIs (Flask)
- Legacy systems modernization
- Git / GitHub, versioning strategies
- Code quality, testing, QA, deployments

Data Engineering & Analytics

- Data cleaning, structuring, transformation
- Pandas, NumPy, SQL
- ETL concepts, data validation
- MongoDB

Machine Learning & AI (Applied)

- Scikit-learn (classification, regression, clustering)
- End-to-end ML pipelines
- Model evaluation & interpretability
- Business-oriented decision thresholds
- Explainable ML for regulated contexts

MLOps & Deployment

- API-based model serving
- Docker & Cloud Run (production deployment)
- CI/CD with GitHub Actions
- Model lifecycle awareness (train → validate → deploy → monitor)

BI & Decision Support

- Power BI dashboards
- Data modeling
- Translating model outputs into business insights

Methods & Consulting

- Functional analysis
- BPMN
- Scrum / Agile

- Stakeholder communication

Selected AI / Data Projects

Credit Risk Scoring – End-to-End ML Project (PDI)

Objective: Transform a probabilistic ML score into an auditable business decision system.

- Exploratory Data Analysis (EDA)
- Feature engineering & data preparation
- Logistic Regression (interpretable baseline)
- Business decision layer (ACCEPT / REVIEW / REJECT thresholds)
- Flask API + decision UI
- Dockerized deployment on Google Cloud Run
- CI/CD with GitHub Actions (keyless authentication)

Key focus: explainability, traceability, production readiness.

🔗 Live demo & code available on GitHub

Professional Experience

Python Developer & Technical Project Lead

iA.PST – iMio | *2020 – 2025*

- Backend Python development for business-critical platforms
- Technical architecture & application modernization
- Functional analysis and roadmap coordination
- Data structuring, transformation, and modeling
- Process automation using Python
- Code quality, versioning, QA, deployments

Key achievements

- Delivery of 3 major product releases
- Significant performance and data consistency improvements
- Modernization of legacy components

Senior Python Developer (Plone / Zope)

iA.Urban – iMio | *2013 – 2020*

- Backend Python development for large-scale public-sector platforms
- Complex data models and business workflows
- Data extraction and structuring for urban planning processes
- Performance optimization (indexing, queries, catalogs)
- Deployment across 60+ public administrations

Impact: improved data quality, reliability, and operational efficiency.

Software Developer
Groupe S | *2012*

- Maintenance of business applications
- UI refactoring
- Business rule implementation

Education

AI-Oriented Developer – Technofutur TIC (2025–2026)

- Python, Machine Learning, Deep Learning
- SQL, Pandas, NumPy

- Power BI, SSIS
- Flask, BPMN

.NET Developer (C#) – Bruxelles Formation (2011–2012) – Certified
Bachelor in Business Computing – 2009

Languages & Soft Skills

- **French:** Native
- **English:** Professional working proficiency

Soft skills: analytical thinking, pedagogy, autonomy, reliability, communication, consulting mindset

Positioning Statement

Senior Python Engineer specialized in building **production-ready AI & ML solutions** aligned with real business decisions, with a strong focus on **explainability, robustness, and value creation**.