

Sleima Ducros

Software Engineer (Python • TypeScript • Web & Data Systems)

Multilingual: French • English • Dutch

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PROFILE

Software Engineer with experience across backend, frontend, and data-driven application development using Python and TypeScript.

Comfortable working on business logic, APIs, data structures, and user-facing interfaces, with a focus on system reliability, maintainability, and clear architectural decisions.

Brings structured thinking, technical curiosity, and the ability to evolve within modern web and data environments.

TECHNICAL SKILLS

Programming & Web Development: Python (FastAPI, Django, Flask) • REST APIs • React • Next.js • TypeScript

Databases & Data Processing: SQL (PostgreSQL, MySQL) • Pandas

AI & API Integration: Generative AI (OpenAI API, Hugging Face)

Infrastructure & Tools: Docker • Git/GitHub • CI/CD • Figma

Methodology: Agile / Scrum

KEY PROJECTS

Field Intelligence Platform (FIP) - Django, PostgreSQL, Next.js (PWA), Docker

- Designed an offline-first, workflow-driven operational platform simulating real-world industrial constraints.
- Implemented strict backend state management, version-based concurrency control, audit traceability, and SLA monitoring.
- Architected incremental synchronization and PWA caching logic for low-connectivity scenarios.
- Containerized with Docker to ensure environment consistency and reproducible deployment.

Data Pipeline & Monitoring System - Python, Pandas, Streamlit

- Designed an end-to-end data pipeline for log ingestion, transformation, and structured anomaly detection.
- Implemented reproducible data processing workflows with emphasis on traceability and integrity.
- Developed monitoring interfaces enabling drill-down analysis and validation of transformation logic.

Applied AI Systems - Flask, OpenAI API, Hugging Face, Next.js

- Integrated language and vision APIs into controlled applications, focusing on reliability and structured prompt handling.
- Managed latency, token constraints, and error scenarios under real API limitations.
- Developed lightweight validation interfaces to test interaction flows and system behavior.

EXPERIENCE & EDUCATION

Full-Stack Developer Trainee - MolenGeek, Brussels | 2023–2024

Intensive 34-week program working on team-based web applications following agile workflows and production-style collaboration.

Education & Certifications

- IBM AI Developer Certificate - Coursera (2024–2025)
- Bachelor in Business Informatics (2 years completed) - ISFCE Brussels (2021–2023)

READY TO CONTRIBUTE ON

- Backend development (Python, APIs, business logic)
- Frontend implementation (React / Next.js, UI integration)
- Data processing and structured workflows
- System-oriented web applications in collaborative environments