



# NAKIB Wassil

📍 Chens-sur-Léman, France 📞 +33 7 81 41 56 22 📩 wnakib21@gmail.com  
LinkedIn: [Wassil Nakib](#) GitHub: [silovv.github.io](#)

## Professional Summary

AI and Cloud Software Engineer with a strong focus on building sustainable, production-grade architectures. My background spans Linux administration, Data Engineering, and AI Agent development. I am deeply interested in software design patterns and best practices that ensure long-term system maintainability. Currently preparing for the AWS Solutions Architect Associate certification, I am eager to leverage my Python/ Shell expertise and DevOps experience to build scalable, high-performance solutions in a Cloud-native environment.

## Technical Expertise

- **Development and Data:** Python, Bash, SQL, Redis, Data Pipeline Design, ETL Processes.
- **Cloud (AWS):** IAM, EC2, S3, Route53, ELB, ASG, CloudFront, SQS, SNS, ElastiCache. (Certification in progress)
- **AI and Machine Learning:** PyTorch, TensorFlow, Hugging Face Transformers, AI Agents (LangGraph, Agno, Google ADK), Context Engineering.
- **DevOps and Infrastructure:** Docker (K3s, kind, dind), Kubernetes, CI/CD Pipelines, Monitoring (Splunk, Prometheus), IaaC (terraform).
- **Communication:** Powerpoint, Excalidraw, FossFlow, Markdown documentation and presentations
- **Methodologies:** TDD, SOLID, DRY, KISS, GitOps

## Experience

### Freelance - Data Engineer

HermineIA · 12/2025 - 01/2025

- Automated ETL Workflow: Engineered documented Python/SQL scripts to analyze, normalize, and migrate legacy customer databases, ensuring data integrity.
- Collaborative Data Mapping: Translated business needs into visual specifications (Excalidraw/Excel) through iterative reviews with stakeholders.
- Client Management: Supervised the entire project lifecycle, from administrative setup to delivery, ensuring transparency via bi-weekly reporting.
- Key Impact: Achieved **90% time savings** on client migrations compared to manual processing.

### Applied AI Engineer

HermineIA · 02/2025 - 09/2025

- Resilient Agentic Architecture (Hierarchical): Orchestrated a hybrid Legal AI Agent Assistant (Python, FastAPI, Redis, Firebase) using Native APIs to ensure state persistence and granular control.
- Cost-Efficient Engineering: Designed a NoSQL context injection system (avoiding complex RAG) and internal benchmarking tools to optimize the Performance/Cost ratio.
- Legal-NLP Bridge: Collaborated with jurists to translate complex legal jargon into high-precision prompts, ensuring accurate document analysis.
- Key Impact: **Secured 2 clients** and 15 beta-testers | Delivered **50% time savings** on legal drafting | Upselling potential.

### Devops Engineer

Equasens · 02/2024-06/2024

- Robust System Design: Engineered a diagnostic and monitoring solution using Software Craftsmanship principles (SOLID, TDD in Bash) to ensure high reliability and maintainability.
- DevOps Automation: Applied a Jenkins CI/CD pipeline to automate production deployments in a Gitflow environment.
- Agile Leadership: Facilitated sprint retrospectives for a 9-person team by gathering team feedback, identifying improvement areas (communication, technical practices), and organizing the session structure, timing, and collaboration tools (Miro).
- Communication: Led a knowledge-sharing session on TDD for 3 people.
- Key Impact: **Reduced server analysis time by 30%** for support teams on 8,000+ pharmacies.

# Projects

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## Jira Tickets Classifier

*End-to-End MLOps Project*

- Fine-tuned DistilBERT Model using LoRA (Low-Rank Adaptation) and PEFT to classify issue tickets with high efficiency.
- Hybrid Cloud Infrastructure: Architected a decoupled system using Terraform (IaC) connecting AWS S3 and local resources via AWS SQS for asynchronous processing.
- CI/CD and Quality: Implemented a rigorous Trunk-Based Development workflow with FluxCD for GitOps. Enforced code quality using pre-commits and linters (Ruff, yamllint, TFLint).
- Tracking: Directed experiments and model lifecycles using MLFlow.
- Impact: Built a production-grade MLOps pipeline applying AWS Solutions Architect principles and industry-standard DevOps methodologies.

## Autonomous Vehicle Steering Control

*End-to-End ML and robotics project*

- System Integration: Leveraged ROS2 publish/subscribe architecture to interface with vehicle telemetry and execute real-time control commands.
- Automated Data Engineering: Developed a multi-camera data collector (3 POVs + steering metadata) by synchronizing disparate ROS2 topics for supervised learning.
- Distributed Training: Orchestrated large-scale model training on a Slurm-managed cluster using PyTorch, optimizing hyperparameters for steering precision.
- Monitoring and Evaluation: Used TensorBoard to track convergence metrics (Loss, F1-Score) and built a custom logic to evaluate real-world performance via "distance-to-route" deviation.

## Containerization and CI/CD pipeline for a Java back-end application

*DevOps Project*

- Docker: multi staged build and Light Image using native layer caching strategies.
- Gitlab CI: tag and version management, Build and push on docker Hub when a commit on main branch occurs or a tag is created.
- Artifacts Register: Create and save .jar artifacts in Gitlab artifact register.

# Education

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**Software Engineering Degree: Information and Networks Systems, Polytech Nancy - 2022-2025**

**Master II : AI Applied in Vision and Robotics, Faculté des Sciences et Technologies de Nancy - 2024-2025**

**Master I: Computer Science, University of Linkoping, Sweden – 09/2023-02/2024**

# Professional Certifications

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- AWS Certified Solution Architect Associate (Exam scheduled for March 2026)
- Certified Linux Administrator (Open Classroom)
- TOEIC: 865/990
- Hugging Face Agent Course (Hugging Face)

# Languages

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- French: Native
- English: Professional proficiency (TOEIC: 865)
- German: Basic Knowledge