

KIMBA SABI N'GOYE

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TECHNICAL SKILLS

Languages:	Python, Go, JavaScript, HTML, CSS, SQL (PostgreSQL)
Frameworks:	React, FastAPI, PySpark
Cloud & DevOps:	GCP, CI/CD, Docker, Kubernetes
Developer Tools:	Linux, Git, Agile/Scrum methodologies
Certifications:	GCP Professional Data Engineer
Languages:	French (native), English (Full Professional Proficiency)

EDUCATION

Master in Data Management in Large-Scale Distributed Systems , Université Paris-Saclay	2023-2024
Courses: Distributed Systems, Database Systems Architecture, Service Oriented Architecture, Big Data Management	
Master in Data Science , Institut de Mathématiques et de Sciences Physiques	2020-2022
Courses: Machine Learning, Statistics and Probability, Data Mining, Linear Programming, Software Architecture	

EXPERIENCE

Cloud & Data Engineer Intern Renault Group	April 2024 – September 2024 <i>Boulogne-Billancourt, France</i>
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- Reduced data pipeline delivery time by 30% by developing a Gemini-powered assistant that enabled 75% code automation from business analysts' specification files
- Accelerated data validation cycles by 40% and improved collaboration by developing a no-code QA interface that enabled analysts to independently define and execute data quality checks.
- Designed and deployed a unified web backend using Python (FastAPI), integrated with BigQuery and DBT, hosted on Google Cloud Run, and deployed via GitLab CI/CD pipelines.

Software Engineer Huawei Technologies Co. Ltd	November 2022 – September 2023 <i>Cotonou, Benin</i>
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- Implemented 100+ service activation workflows (SIM, FTTH, mobile data, voice, SMS) using Huawei's orchestration engine; integrated services logic with downstream network elements via SOAP APIs.
- Delivered zero service disruptions over 10+ months of production operation by leading the migration from a legacy service provisioning system to a modern platform supporting over 1M+ telecom subscribers
- Conducted User Acceptance Testing and Geographic Disaster Recovery tests to validate production readiness and performance under load.
- Maintained platform stability through continuous monitoring, automated failover, and proactive system maintenance.

Software Engineer Intern Huawei Technologies Co. Ltd	May 2022 – October 2022 <i>Cotonou, Benin</i>
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- Led requirements-gathering sessions with telecom operators and translated business needs into service specifications.
- Oversaw data center setup, including rack installation, IP addressing, VLAN segmentation, and firewall configuration.
- Provisioned a dual-site private cloud using OpenStack ensuring geographic redundancy and high availability for production

PROJECTS

Distributed Commit Log System	<i>Go, Protocol Buffers, gRPC, HTTP</i>
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- Built a segmented commit log with append-only storage and offset-based indexing.
- Defined structured gRPC APIs using Protocol Buffers
- Implemented segment rotation, record serialization, and index compaction.

Algorithm Design Canvas	<i>React, Automerge (CRDT), WebSocket, TanStack Router</i>
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- Built a collaborative frontend app to digitize the [HiredInTech Algorithm Design Canvas](#), enabling structured problem-solving for coding interviews.
- Implemented peer-to-peer real-time collaboration using Automerge and WebSocket.