

# Abel Kevin Ngaleu

## Cloud Software Engineer



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## PROFESSIONAL PROFILE

Cloud & AI Software Engineer with 5+ years of experience designing, developing, and deploying scalable, high-impact cloud-native systems. Strong focus on backend development and distributed architectures, with solid knowledge of modern AI concepts including Large Language Models (LLM), Retrieval-Augmented Generation (RAG), Agentic AI, and MCP. AWS Certified Solutions Architect with hands-on experience in high-throughput financial infrastructure. Proficient in Python, TypeScript, and SQL, with a consistent track record of delivering production-grade distributed systems at scale.

## PROFESSIONAL EXPERIENCE

### Software Engineer Consultant · CACEIS (Full-time)

Jan 2025 - Present

Luxembourg · Hybrid

- Contributing to a next-generation Transfer Agent platform built from scratch on AWS, based on a distributed architecture of 70+ microservices targeting 300,000+ transactions per hour.
- Designing and implementing high-throughput backend services in Java and Node.js, with a strong focus on scalability, performance, and system resilience for mission-critical financial operations.
- Building event-driven integrations with Apache Kafka and Amazon SQS; deploying services via Docker and Kubernetes in a cloud-native environment.
- Managing data flows across PostgreSQL, Amazon Aurora, and Amazon S3, supporting a highly available and fault-tolerant financial infrastructure.

**Key skills:** Java · Node.js (NestJS) · Docker · Kubernetes · Apache Kafka · Amazon SQS · PostgreSQL · Amazon Aurora · Amazon S3 · AWS

### Software Engineer · AYDO (Full-time)

Sep 2024 - Jan 2025

Luxembourg · On-site

- Developed core components of a fintech platform for research, selection, and monitoring of structured financial products.
- Built full-stack features using React, Go, and PostgreSQL, translating complex investment workflows into reliable, user-facing software.
- Integrated AWS services into application workflows, leveraging cloud capabilities to support data storage, processing, and reliability requirements.
- Collaborated with product and finance teams to turn investor data and business logic into practical software features.

**Key skills:** React · Go · PostgreSQL · AWS

### Software Engineer (Part-time) · SnT - University of Luxembourg

Jan 2023 - Sep 2024

Esch-sur-Alzette, Luxembourg · Hybrid

- Built a Python bot to scan GitLab repositories for open-source license compliance, improving project governance and reducing legal exposure.
- Designed and implemented RESTful APIs with Python/Flask; containerised applications with Docker and Docker Compose for consistent, scalable deployments.
- Automated testing pipelines through custom Python scripts, significantly reducing manual QA effort while increasing test coverage.
- Developed a React/Next.js frontend for data collection and implemented GitLab CI/CD pipelines for automated testing and deployment.
- Built and tested a browser extension integrating the MISP Threat Intelligence Platform via PyMISP for web data labeling and structured upload.

**Key skills:** Python · Flask · Docker · Docker Compose · React · Next.js · GitLab CI/CD · Linux · SQL · PyMISP

## Full Stack Developer · MySoltivo (Contract)

Aug 2020 - Sep 2022

Montreal, Canada · Remote

- Delivered full-cycle web applications for multiple clients using ReactJS, Node.js, and Flask, covering the complete software development lifecycle.
- Architected and deployed microservices with Node.js and Flask; leveraged AWS Lambda for serverless computing to optimise cost and performance.
- Designed and documented RESTful APIs, ensuring clear contracts between frontend and backend services.
- Wrote test suites with Jest; conducted code reviews and mentored junior developers.

**Key skills:** ReactJS · Node.js · Flask · AWS Lambda · Docker · Kubernetes · MongoDB · Next.js · Jest · pytest

## Junior Software Developer · Inchtechs Sarl (Full-time)

Aug 2018 - Aug 2020

Yaoundé, Cameroon

- Contributed to the development of a cloud-based CRM application built with Flask and ReactJS.
- Developed REST APIs with Python/Flask, Node.js, and MongoDB; designed and maintained scalable PostgreSQL and MongoDB databases.
- Optimised frontend performance through lazy loading, code splitting, and caching strategies.
- Automated AWS resource provisioning across dev, staging, and production environments using Ansible; actively participated in Agile ceremonies.

**Key skills:** Flask · ReactJS · Node.js · Python · MongoDB · PostgreSQL · Ansible · AWS · Linux

## EDUCATION

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### MSc - Information and Computer Sciences

2022 - 2024

Reliable Software Systems & Big Data Analytics · University of Luxembourg

### Bachelor in Computer Science and Networking

2015 - 2018

Computer Science & Networking · SUPPTIC

## CERTIFICATIONS

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### AWS Certified Solutions Architect - Associate

Issued Mar 2026 · Expires Mar 2029

Amazon Web Services (AWS)

### Full Stack Developer Nanodegree

Issued Jun 2021

Udacity

## TECHNICAL SKILLS

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<b>Languages</b>	Java · Python · TypeScript · SQL
<b>Backend</b>	Node.js · NestJS · FastAPI · RESTful APIs · Microservices Architecture
<b>Cloud - AWS</b>	EC2 · ECS · EKS · Lambda · S3 · SQS · Aurora · RDS · OpenSearch
<b>DevOps &amp; CI/CD</b>	Docker · Kubernetes · GitLab CI/CD · Ansible
<b>Messaging</b>	Apache Kafka · Amazon SQS
<b>Databases</b>	PostgreSQL · MongoDB · Amazon Aurora · Amazon S3
<b>AI / ML</b>	LLM / Generative AI · RAG · Agentic AI · MCP · AI Security
<b>Other</b>	Database Design · Cloud Architecture

## LANGUAGES & INTERESTS

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**Languages:** French (Native) · English (Professional)

**Interests:** Finance & Financial Markets · Tennis