

# JOEL OTEPA WEMBO

## Cloud Solutions Architect & AI Agent Developer

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🌐 <https://linkedin.com/in/joelwembo> | <https://github.com/joelwembo>    📄 <https://joelwembo.medium.com/>

📍 <https://joelwembo.github.io> | Permanent Residency : BGC, Taguig City, Metro Manila, Philippines

### SKILLS

Kubernetes    Pre-Sales

Data Center Architecture

Firewall & VPN Configuration

Zero-Trust Network Access

Bare Metal Provisioning

NVIDIA GPU Computing

Azure VM    AWS ELB/ALB

Azure AKS / EKS    AWS Lambda

Golang    DDoS protection

GCP GKE    API    Cybersecurity

GPU Instances    PyTorch

AI Models / LLM    VMware ESXi

Azure Security    ISO 27001

Proxmox VE    KVM    Citrix

Rack & Power Planning

Python    Azure Landing Zone

Terraform    Virtualization

GitHub Actions    Docker

Django    PostgreSQL    AI/ML

n8n    TensorFlow    LangChain

Databricks    Hybrid Cloud

Multi-tenant Infrastructure API

### SUMMARY

Certified Cloud Solutions Architect & Agentic AI Engineer with 20+ years of experience designing agentic, multi-cloud architectures across AWS, Azure, and GCP. Expert in integrating AI Agents as a Service (AaaS) into enterprise cloud and data center infrastructures to drive automation, scalability, and intelligence. Proven track record delivering high-availability SaaS and PaaS systems, optimizing deployments by 70%, and leading AI/ML-powered architecture initiatives that align technical innovation with business outcomes.

Key Achievements:

- Architected enterprise data centers and multi-tenant SaaS platforms leveraging Cisco networking and modern cloud fabrics.
- Designed and deployed PaaS and cloud-native solutions on AWS, Azure, and GCP using Terraform, Kubernetes, and serverless technologies.
- Built AI-driven SaaS products utilizing LangChain, Anthropic Models, OpenAI, Azure AI Foundry, AWS Bedrock AgentCore, and Google AgentSpace.
- Led enterprise architecture and pre-sales engagements, translating business goals into scalable, secure technical solutions.

### EXPERIENCE

#### Artificial Intelligence Engineer

**Consultant - prodxcloud AI**

📅 09/2025 - Present    📍 San Francisco, USA

**Agentic Data Center Architect and Cloud Partner:** Design, build, deploy AI systems for enterprise challenges in cloud/hybrid. Oversee AI lifecycle: from data ingestion, model training to deployment, and client solutions.

- Responsible for the complete AI lifecycle—including data ingestion, model training, deployment, and client-facing solution architecture.
- Developed and deployed NLP, computer vision, AI agent, and generative AI models using PyTorch, TensorFlow, and Hugging Face for automation, predictive analytics, and intelligent decision-making.
- Built scalable, end-to-end ML/AI pipelines integrated with SaaS and PaaS platforms, supporting training and inference workflows in AWS, GCP, and Azure.
- Engineered unified MLOps processes with CI/CD, Docker, and Kubernetes, incorporating model versioning, monitoring, and explainability using MLflow, LangSmith, and OpenTelemetry.
- Applied LangChain, Modular Agentic Planner (MAP), and vector databases (FAISS, pgvector) to enable LLM-driven chatbots, advanced knowledge search, and real-time recommendation engines.
- Collaborated with cloud architects, DevOps, and data scientists to enable inference and data flows. Ensured Zero Trust security and VPN/firewall protections.
- **Tech Stack: Machine Learning, Deep Learning, AI Agents, NLP, Computer Vision, PyTorch, TensorFlow, Hugging Face, SaaS/PaaS Integration, AWS, GCP, Azure, MLOps, CI/CD, Docker, Kubernetes, MLflow, LangSmith, OpenTelemetry, LangChain, MAP, FAISS, pgvector, Zero Trust Security**

## INDUSTRY EXPERTISE

### Microsoft AZURE ( Expert )



### GOOGLE CLOUD PLATFORM ( GCP )



### Amazon Web Services ( Certified )



## LANGUAGES

English

Native



## OTHER EXPERIENCES



**Back-End & DevOps Engineer**  
Serino 360  
Philippines - August 2021,  
Smo contracts

Data engineering by building Data pipelines and API using Kafka, SQS, SNS, and Python.



**Python System Analyst**  
Apple (San Francisco, USA) -  
2016 - 2017

- Created automation scripts using Python to streamline repetitive tasks.



**System Consultant**  
Sanmina Corp (Dallas, Texas, USA) 2017-2018

Oracle Database, Excel and Python

## EDUCATION

### MS Computer Science

Indiana State University ( USA )

2014 - 2016

### BS Computer Science

Binary University of management and entrepreneurship ( Malaysia )

2008 - 2013

## EXPERIENCE

### Cloud Solutions Architect – Agentic Data Center

Consultant - prodxcloud

01/2021 - Present

California, United States

Specialized in developing and deploying AI Agents as a Service (AaaS) to automate and optimize operations for enterprise data centers and cloud hosting providers. Designed agent-based systems leveraging Google AgentSpace, AWS Bedrock AgentCore, LangChain, Go, Python, PyTorch, and TensorFlow, spanning NLP, machine learning, and computer vision for scalable, intelligent solutions across cloud and on-premise environments.

Key Responsibilities & Achievements:

- Consulted across enterprise projects, architecting cloud-native infrastructure and multi-tenant SaaS platforms integrating advanced AI/ML services.
- Designed and documented large-scale data pipelines; implemented robust CI/CD pipelines with Docker, Terraform, Kubernetes, and n8n.
- Automated deployments across AWS, GCP, and Azure, cutting deployment times by 70% and eliminating downtime during releases.
- Led the design and launch of a multi-tenant ecommerce SaaS platform supporting 10,000+ tenants and 99.99% uptime with tenant isolation, secure data partitioning, and compliance-driven security.
- Built infrastructure and ML-driven features including recommendation, fraud detection, and dynamic pricing, processing millions of transactions daily.
- Technologies used: Golang, Django, Typescript, Terraform, Jenkins, GitHub Actions, VPC, Docker, Kubernetes, AWS EKS, Apache Airflow, n8n, LangChain, ReactJS, AI Models, TensorFlow, PyTorch, Apache Kafka and Hugging Face Transformers.**

### Senior Software Engineer

UBA Group LTD | United Kingdom

2018 - 2021

London, United Kingdom

Function as member of systems and architecture teams within a cross-functional software product organization, liaising between business stakeholders and engineering teams.

- Implemented security measures, including authentication and authorization mechanisms, using tools like SIEM, firewalls, and EDR to protect sensitive data.
- Designed and executed cloud migration plans, minimizing downtime and ensuring a smooth transition for diverse workloads.
- Leveraged cloud-native migration tools, data transfer services, and automation scripts.
- Incorporated virtualization technologies such as VM KVM, Libvirt, OpenStack, and Ansible for efficient handling of virtual machines during the migration process.
- Enhanced deployment speed by 40% by developing CI/CD pipelines using Jenkins, Kubernetes, and Docker for automated build and release of 5+ microservices. Deployed scalable CI/CD pipelines on Jenkins supporting
- Reduced manual deployment errors by 30% by creating automated CI/CD processes with Jenkins, Kubernetes, and Docker environments.