

GIUSEPPE MANCINI

Google Cloud Certified Professional Cloud Architect (PCA) & ACE | Enterprise AI Architect
Frankfurt am Main Metropolitan Area, Germany | info@giuseppemancini.dev
LinkedIn | Portfolio | Labs | GitHub

Professional Profile

Google Cloud Certified Professional Cloud Architect (PCA) and **Enterprise AI Architect** specialized in designing secure, highly available, and resilient cloud ecosystems on Google Cloud Platform. Combining a strong full-stack engineering background (Python/Django, Node.js, React) with advanced declarative infrastructure (Terraform) and active membership in the Google GEAR program, I architect production-grade Agentic AI workflows, RAG pipelines (Vertex AI, pgvector), and serverless environments. Proven track record in establishing Zero Trust security governance, FinOps cost optimization, and ensuring strict EU data sovereignty (GDPR/BDSG) for high-impact B2B environments.

OFFICIAL CERTIFICATIONS & SPECIALIZATIONS

- **Google Cloud Certified Professional Cloud Architect (PCA)** – Google Cloud | Issued Oct 2026 [Verify Credly Badge]
  - Validated expertise in designing enterprise-grade cloud solutions, highly available multi-region architectures, IAM & Zero Trust governance, and FinOps cost-optimization strategies.
- **Google Cloud Certified Associate Cloud Engineer (ACE)** – Google Cloud | Issued Sep 2026 [Verify Credly Badge]
  - Validated hands-on expertise in deploying cloud-native applications, managing GCP resources, and configuring operational monitoring.
- **Google GEAR Program (Generative AI Early Adopter)** – Active Member
  - Collaborating on advanced generative AI architecture, Vertex AI implementations, and production-grade Agentic Workflows.
- **Google Skills Credentials & Learning Paths:**
  - Path 118: AI Agentic Workflows & Multi-Agent Orchestration
  - Path 12: Cloud Architecture & Serverless Engineering
  - Generative AI Leader & GCP Fundamentals Credentials
- **Full Stack Web Development Certification** – CareerFoundry

CORE TECHNICAL SKILLS

- **Cloud Architecture & GCP:** Professional Cloud Architect (PCA), Associate Cloud Engineer (ACE), Terraform (IaC), Cloud Run, Compute Engine, VPC Networking, Cloud IAM, VPC Service Controls, Secret Manager, Cloud SQL, Artifact Registry, FinOps & Cost Optimization.
- **AI & Data Intelligence:** Vertex AI, Agentic Workflows & Multi-Agent Systems, LLM Orchestration (Gemini API, LangChain), Enterprise RAG Pipelines, Vector Search (pgvector, Cloud SQL), Prompt Engineering.
- **Backend & API Engineering:** Python (Django 5.x, FastAPI), Node.js (Express), PostgreSQL, MongoDB, RESTful API Architecture, Microservices, JWT Authentication.
- **Frontend & Web Performance:** React, Next.js, TypeScript, Modern Sass (@use/@forward architecture), EJS, Performance & SEO Optimization.
- **DevOps & Security Governance:** Docker, GitHub Actions (CI/CD), Git, Linux/WSL2, Postman, EU Data Sovereignty (GDPR/BDSG Compliance).

KEY CLOUD & AI PROJECTS

- **Adviser – AI Business Advisory Agent** |
  - **Architecture & AI Orchestration:** Designed an end-to-end RAG application utilizing Vertex AI Embeddings and Cloud SQL with pgvector for multi-language semantic search and contextual document analysis.
  - **Serverless Deployment:** Deployed on GCP Cloud Run with containerized Docker microservices, implementing strict Secret Manager policies and automated CI/CD via GitHub Actions.
- **Job-Tracker Dashboard – Enterprise Application Tracker**
  - **Full-Stack Engineering:** Developed a reactive management interface using React, Vite, Node.js, and Express, implementing global state management for real-time tracking.
  - **Security & Persistence:** Built a production-ready authentication engine using JWT with bcrypt password hashing, secure HTTP-only cookies, and MongoDB data modeling.
- **Promontolio – E-commerce & AI Lead Generation Platform**

- **Infrastructure Modernization:** Refactored email infrastructure to an API-first architecture using Resend, achieving 99.9% deliverability and eliminating legacy worker timeouts.
- **Data-Driven Strategy:** Architected AI-assisted content workflows and educational digital assets to drive B2B/B2C lead acquisition and retention.

PROFESSIONAL EXPERIENCE

- **MainCloudLogic** — Frankfurt am Main, Germany

Cloud & AI Solution Architect (Freelance / Project-Based) | 2024 – Present

- **Enterprise Cloud Architecture:** Engineered and deployed production-ready, serverless infrastructure on Google Cloud Platform using Cloud Run, Cloud SQL, Secret Manager, and Docker.
- **AI Orchestration & RAG:** Designed autonomous agentic workflows and GDPR-compliant vector search pipelines (Vertex AI, pgvector) to automate complex B2B business logic.
- **Security & Governance:** Enforced strict IAM access controls, automated CI/CD pipelines via GitHub Actions, and ensured European data sovereignty compliance (GDPR/BDSG).

- **Independent Systems & Cloud Engineering** — Frankfurt am Main, Germany

GCP & AI Specialization Track | 2024 – 2026

- **Intensive Upskilling & Certification:** Successfully achieved the Google Cloud Certified Associate Cloud Engineer (ACE) credential and completed high-level Google Skills paths (Path 118, Path 12).
- **Hands-On Architecture Labs:** Engineered production-grade RAG and Agentic Workflow prototypes within the Google GEAR program.

- **LG Energy Solution** — Frankfurt am Main Metropolitan Area, Germany

Technical Support Coordination | 2023 – 2024

- **Workflow & Escalation Management:** Acted as a strategic technical bridge between field engineering teams and clients, managing complex technical escalations and service ticket workflows.
- **Systems Maintenance:** Provided technical guidance on IoT application integration and hardware/software interfaces for renewable energy storage systems.

- **LUDAV srl / Frantoio in Villa** — Italy / Germany

Founder & Digital Lead | 2019 – 2023

- **Digital Transformation:** Architected the brand's digital infrastructure, implementing bilingual SEO and web optimization strategies that drove a 60% increase in organic traffic.
- **Operations & Supply Chain:** Engineered end-to-end supply chain processes, integrating quality control, international logistics, and automated billing systems.

- **Mondimpresa** — Rome, Italy

Strategic Internationalization Intern | 2010

- **Market & Data Analysis:** Delivered data-driven strategic entry recommendations for SMEs expanding within the EU market.

EDUCATION & ACADEMIC BACKGROUND

- **Post-Graduate Master in Diplomatic Studies** — SIOI (Italian Society for International Organization), Rome, Italy
  - **Focus:** International Governance, Crisis Management, Multilateral Trade & High-Level Policy Analysis.
- **Master's Degree (Laurea Magistrale) in International Relations & Political Science** — Sapienza University of Rome, Italy
  - **Core Competency:** Analysis of complex international systems, political dynamics, and global economic policies; applying systemic thinking to compliant and secure Cloud/AI architectures.
- **Full Stack Web Development Certification** — Boolean Careers
- Specialization in MERN and Django software engineering, API development, and cloud integrations.

LANGUAGES

- **German:** Upper-Intermediate / Professional (B2 Certified, C1 Proficiency) — Fluent in professional, business, and workplace communication.
- **English:** Professional Working Proficiency (C1) — Primary language for technical documentation, cloud architecture, and business operations.
- **Italian:** Native Speaker (C2).