

PRINCIPAL AI ARCHITECT / FORWARD-DEPLOYED ENGINEER

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# Christopher Mangun

Principal AI Architect and Forward-Deployed Engineer for regulated healthcare AI systems, enterprise RAG, AI governance, MLOps, FHIR interoperability, and production LLM evaluation.

PFIZER

ABBOTT

IPG HEALTH

8 VERIFIED CERTS

PUBLIC PROOF LAB

## RECRUITER SNAPSHOT

**TARGET ROLES:** Principal AI Architect, Forward-Deployed Engineer, AI Platform Lead

**INDUSTRY FIT:** Healthcare, life sciences, pharma, diagnostics, regulated enterprise

**CORE STACK:** RAG, LLM evals, MLOps, FHIR, model governance, cloud AI platforms

**COMPLIANCE:** HIPAA, FDA, GxP, MLR, audit trails, model risk, PHI controls

## SELECTED PUBLIC SYSTEMS

### Healthcare RAG Platform

HIPAA-aware retrieval with PHI controls, guardrails, audit logging, and evaluation metrics.

### Model Governance Framework

Model cards, fairness checks, responsible AI controls, and model risk evidence.

### Compliance Automation Suite

Regulated workflow controls for PHI validation, security controls, and compliance traceability.

### FHIR Integration Service / Agentic Eval Harness

FHIR R4 interoperability and LLM regression gates for deterministic agent behavior.

## PROFESSIONAL EXPERIENCE

### Independent Forward-Deployed AI Architect

NYC | July 2025 - Present

*Principal AI Platform Consultant / Regulated AI Systems Practice*

- Productizing and demonstrating regulated AI patterns previously delivered inside Pfizer, Abbott, and healthcare-agency environments: enterprise RAG, model governance, compliance automation, FHIR integration, LLM evaluation, and policy-enforced agent workflows.
- Built 5 public, source-reviewable proof systems with retrieval, audit trails, role-aware access, PHI-aware controls, model cards, deterministic evaluation harnesses, and evidence viewers for AI governance and model risk review.
- Delivered Salesforce-Shopify integration pipelines and marketing automation infrastructure supporting Love Trust's growth platform.

### Publicis Groupe / Pfizer Colab

New York, NY | Mar 2024 - July 2025

*Production Lead / Forward-Deployed AI Operations*

- Embedded with Pfizer Global Production and agency leadership on CEO special-project pilots, translating ambiguity into governed workflows, stakeholder alignment, and production-ready delivery plans.
- Led design of an internal AI search assistant using OpenAI and SharePoint, shaping semantic indexing for controlled enterprise knowledge retrieval in regulated environments.
- Owned production execution for Pfizer's largest brand initiatives, balancing speed, MLR readiness, and operational risk.

### IPG Health - IPG ProHealth & Area 23

New York, NY | Mar 2020 - Mar 2024

*Director of Production & Delivery / Pharma Platform Operations*

- Launched global intranet and single-source knowledge bases across healthcare agency teams, creating reusable operational infrastructure for distributed pharma delivery.
- Managed \$51M portfolio across Novartis and Sanofi brands, aligning product, creative, medical, regulatory, and production teams around delivery risk and market access needs.

**Abbott Labs - Advanced Analytics & Machine Learning***Forward-Deployed Engineering (Contract)*

- Deployed data ingestion and ML-readiness pipelines across 30K+ global diagnostics systems, creating regulated data foundations for analytics, downstream model workflows, and executive insight.
- Built production-grade NLP and LLM-readiness pipelines with 10x read round-trip latency improvement and stronger observability for regulated analytics workflows.

**EARLIER EXPERIENCE**

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**Boundless Life Science Group (HCB):** Associate Director, Tech. GI Genius AI-assisted adenoma detection, launch, regulatory, and stakeholder workflows.

**Syneos Health GSW / Innovation Lab:** Senior Technical Program Manager. Salesforce/Veeva technical gatekeeping and \$12M pharma delivery planning.

**Self-Employed Contractor:** Software Engineer. SaaS, workflow, secure applications, Pfizer Salesforce and CLM integration layers.

**KEY ACHIEVEMENTS**

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- Reduced compliant content review cycles by 35% and increased asset reuse 2.3x via Azure ML and SharePoint/Teams RAG patterns.
- Designed HIPAA-aligned data and ML-readiness foundations at Abbott for diagnostics analytics and regulated deployment cadence.
- Built public enterprise RAG, model governance, FHIR, compliance automation, and LLM evaluation systems.

**SKILLS & CERTIFICATIONS**

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**Cloud:** Azure OpenAI, AWS Bedrock, GCP Vertex AI, multi-cloud architecture

**LLM Ops:** Enterprise RAG, LLM evaluation, LangChain, OpenAI Evals, Weights & Biases

**Compliance:** HIPAA, FDA, GxP, model risk, AI governance, audit-ready ML

**Certs:** AWS Solutions Architect; GCP Cloud Architect, ML Engineer, Data Engineer, DevOps Engineer, Cloud Security Engineer; Stanford AI/ML Healthcare; Six Sigma Black Belt.