

DANIEL SHIELDS

AI Systems Architect | Enterprise Technology Leader

Fort Lauderdale, FL • Mimeograph Holdings LLC (Managing Partner) • Patent Holder

VALUE PROPOSITION

Architect and operator of production AI systems integrating LLMs, vector databases, and cloud infrastructure. Proven track record deploying enterprise-scale platforms processing healthcare transactions, customer analytics, and automated decisioning. Full-stack capability from AWS infrastructure to user-facing AI features.

CORE COMPETENCIES

AI/ML: LLM Integration (OpenAI, Claude), RAG Architecture, Vector Databases (PGVector), Prompt Engineering, Model Orchestration, Supervised Learning

Languages: Python, JavaScript/TypeScript, SQL, Bash

Cloud/Infrastructure: AWS (EC2, S3, RDS, Lambda, VPC, ECS, ECR), Kubernetes, Docker, Terraform, CI/CD (GitHub Actions, Azure DevOps)

Data Integration: Healthcare Standards (HL7 FHIR, EDI), ETL Pipelines, PostgreSQL, API Design (REST, OAuth2)

KEY ACHIEVEMENTS

- **Graffiti AI Amplifier Platform** (Production, TRL5-9): Multi-tenant SaaS platform with RAG architecture, vector embeddings, LLM integration, blockchain validation. Processes healthcare claims (EDI 837/835, FHIR) with field-level encryption and HIPAA compliance. AWS-native (VPC, Aurora PostgreSQL, PGVector, Kubernetes).
- **EpisodiQ Healthcare Revenue Cycle AI** (Patent Pending): ML-powered system predicting claim approval probability and optimal billing codes. Reduces denials through automated validation against historical outcomes. Supervised learning feedback loop improving accuracy over time.
- **US Patent 20090182643A1**: Invented session replication technology enabling customer service representatives to view exact user web session state. Implemented at scale for e-commerce support operations.
- **PwC Customer Link Platform**: Architected Kubernetes-based microservices platform with Istio service mesh, multi-environment deployment (dev/qa/staging/prod), and SOC 2 compliance for internal/external users.

PROFESSIONAL EXPERIENCE

Mimeograph Holdings LLC | Managing Partner | 2016-Present | Fort Lauderdale, FL

- Active Florida LLC (EIN: 83-1573948). Architect and operator of production AI platforms serving healthcare clients
- Built complete Graffiti AI Amplifier stack: data ingestion, ETL, vector embeddings, ML model layer, API services, FHIR integration
- Solo technical leadership: frontend, backend, infrastructure, ML pipelines, security, compliance. 99%+ uptime in production
- Collaborate with VP Product (Rachel Cascisa - 15+ years AdTech/Analytics, former LiveRamp Head of Product)

Enterprise Contract Roles | Various Clients | 2010-2016

- **PwC Customer Link**: Enterprise data platform architecture, Kubernetes microservices, CI/CD implementation
- **Analytics Platforms**: Adobe Analytics implementation, tag management governance, e-commerce measurement strategy
- **Carnival Cruise Lines**: Quantified Deepwater Horizon oil spill impact on bookings, presented findings to executives

TECHNICAL ARCHITECTURE EXAMPLE: GRAFFITI PLATFORM

Layer	Technology	Purpose
Data Ingestion	SFTP, Multi-format parsers	Secure healthcare data intake (EDI, FHIR, PDF)
ETL/Processing	Python, PostgreSQL	Normalization, hygiene, audit logging
AI/ML	OpenAI Embeddings, PGVector, Custom ML	Vector generation, semantic search, recommendations
Security	AES-256, RSA-2048, Ethereum NFT	Field-level encryption, blockchain validation
API Layer	REST, OAuth2, FHIR	Real-time queries, EHR integration
Infrastructure	AWS (VPC, ECS, Aurora), Kubernetes	Scalable, compliant cloud architecture

BACKGROUND & APPROACH

Self-taught technologist with 15+ years building enterprise systems. Rapid learner with strong pattern recognition and system design thinking. Pragmatic approach balancing innovation with reliability. Deep technical understanding through hands-on implementation. Comfortable with ambiguity and complex problem spaces.

TARGET ROLE & COMPENSATION

Seeking: AI/ML architect roles with hands-on technical leadership. Organizations making real AI investments with concrete transformation goals. Remote-first preferred. **Compensation:** \$180K-\$250K+ base (depending on equity). **Not a fit for:** Pure management roles, slow-moving bureaucracies, heavy political environments.

References available upon request • Portfolio: github.com/mimeographllc/claude-resume • Florida LLC verified at search.sunbiz.org